

April 15, 2017

Remediation and Reuse Branch Land and Chemicals Division United States Environmental Protection Agency, Region 5 77 West Jackson Boulevard, LU-9J Chicago, IL 60604 MAHLE Industries, Inc. 2700 Daley Drive Troy, MI 48083 Phone +1 (248) 743-3758 Fax +1 (248) 743-3701 www.us.mahle.com

Attention: Ms. Jean Greensley

Corrective Action Section

Subject:

Progress Report, Fourth Quarter 2016 and First Quarter 2017

MAHLE Behr Properties Management, LLC

250 Northwoods Blvd.

Vandalia, Ohio

US EPA ID #OH0 000 048 454

Dear Ms. Greensley:

This submittal constitutes the progress report for work undertaken during the fourth quarter of 2016 and the first quarter of 2017, related to the above-referenced Facility. As you are aware, MAHLE Behr Properties Management LLC ("MAHLE") continues to operate a migration control system and manage an existing remediation project at this location. Although manufacturing operations at this facility ceased on December 21, 2016, MAHLE continues to implement remediation activities at the site.

Work Performed Fourth Quarter 2016 (October 1, 2016 – December 31, 2016) and First Quarter 2017 (January 1, 2017 – March 31, 2017)

- Groundwater samples from twenty-five (25) monitoring wells, consisting of one (1) Top-of-Rock, one

 (1) Middle Brassfield, five (5) Sugar Rock, and eighteen (18) Overburden locations, were collected and analyzed during the Fourth Quarter 2016 as part of the routine sampling program (Figure 1, Tables 1 and 2).
- Surface water samples from two (2) locations along the unnamed tributary of North Creek were collected and analyzed during the Fourth Quarter 2016 and First Quarter 2017, and seven (7) Sugar Rock spring samples were collected and analyzed during the Fourth Quarter 2016 (Figures 2 and 3, Table 3). Two of the scheduled spring sampling locations were dry.
- Conducted six (6) rounds of Deep Bedrock (Sugar Rock) and Intermediate Bedrock water level measurements, two (2) rounds of Top-of-Rock water level measurements, and two (2) rounds of Overburden water level measurements (Figures 4-17; Attachment A).
- Collected and analyzed monthly samples from groundwater migration control system monitoring points, including Deep Bedrock and Overburden (Water Table/First Sand and Second Sand) influent streams prior to treatment, and treated groundwater effluent for compliance with NPDES permit (Table 4).

- Sampled a private potable water well at 10440 Cassel Road on October 14, 2016, as part of ongoing semi-annual monitoring at this location, and transmitted results to property owner. Results show no detections of constituents of concern.
- Continued to operate the groundwater migration control system. Fourth Quarter 2016 and First
 Quarter 2017 monthly discharge reports, system activity logs, site inspection checklists, and system
 shutdown reports are included in Attachments C-F, respectively.
- Replaced bedrock recovery well pump and motor on November 3, 2016.
- Installed new AT&T phone line to migration control system on November 17, 2016, restoring full remote access, including outgoing communication of alarms and operating status, and remote monitoring and control. A section of underground phone line was replaced by AT&T on January 27, 2017, after failure due to moisture in the line.
- Submitted application for NPDES Permit renewal to Ohio EPA on December 1, 2016, as required, 180 days prior to May 31, 2017 expiration of the existing permit. Ohio EPA visited the site on March 28, 2017, to review the draft permit with MAHLE and to conduct a site inspection.
- Performed an acid chemical wash of the air stripper and associated treatment system components, and stripping tower tray cleaning through disassembly and power wash on March 14-16, 2017. Due to initial effluent high pressure shutdowns during system restart after cleaning, system operation was not restored until March 20. Upon observation on March 24 of a minor leak from the recently re-assembled stripping tower, the system was immediately shut down for repair. After repair, the system was restarted on March 28.
- Efforts to secure an access agreement with Spears property management have not been successful to date. Access for monitoring on this property is provided through the Environmental Covenant recorded March 11, 2008, and access continues to be granted verbally by the property owner for each routine monitoring event. In the 2016 Three-year Assessment Report, based on the last three years of monitoring data in upgradient monitoring well MW-730 showing that VOC concentrations have returned to near detection levels, Haley & Aldrich (H&A) recommended that that the new monitoring well on Spears property (referenced as Well A in the 2013 Three-year Assessment) not be installed. Results of December 2016 sampling of upgradient overburden monitoring well MW-730 continue to show only low level detections of constituents of concern.
- Data evaluation is ongoing regarding Top-of-Rock water level investigation conducted as part of an evaluation of changes in Top-of-Rock groundwater flow patterns, and investigation of intermittent elevated TCE concentrations in the unnamed tributary to North Creek.

Data Collected

 Groundwater samples were collected from twenty-five (25) monitoring wells during fourth quarter 2016 and analyzed for VOCs. The analytical results from groundwater sampling during the fourth quarter 2016 are included in Table 2. The fourth quarter 2016 TCE concentrations in Sugar Rock groundwater are shown on Figure 18.

- Analytical results for surface water samples collected at the unnamed tributary to North Creek and Sugar Rock outcrop springs are included in Table 3. Surface water TCE results are illustrated on Figure 2; Sugar Rock spring TCE and cis-1,2-DCE results are shown on Figure 3.
- Analytical results for monthly migration control system samples are presented in Table 4.
- Investigation results related to observed changes in Top-of Rock groundwater flow patterns will be summarized in a separate report.
- Analytical results from sampling of surface water, storm sewer outfalls, and storm sewer manholes will be summarized in a separate report.

Performance Evaluation and Problems Encountered

- The bedrock groundwater migration control system was operational for approximately 82% of the fourth quarter 2016 and first quarter 2017. System downtime was related primarily to maintenance issues including: failure and replacement of the bedrock recovery well pump, high level in equalization tank due to increased influent flow from precipitation event, testing of system components, migration control system acid wash, disassembly and cleaning of the air stripping tower trays, high pressure in the effluent discharge after system cleaning, and a minor leak at a new gasket in the re-assembled air stripping tower. The primary downtime was related to two system shut-downs due to a bedrock well pump failure, evaluation, and replacement during October and November (21 days) and an acid wash and tray cleaning during March (7 days). Excluding those two events, the system was in operation approximately 97% of the reporting period.
- DNAPL recovery wells were inspected for the presence of DNAPL in both the fourth quarter 2016 and first quarter 2017. Based on bailer checks, no wells contained visible DNAPL; accordingly, no DNAPL recovery was performed during these quarters.
- The bedrock recovery well pump, which had been recently installed on September 30, 2016, failed on October 13, 2016, due to a defective motor. A new bedrock pump and motor were installed on November 3, 2016, restoring normal operations. A new variable frequency drive (VFD) controlling the bedrock recovery well pump was also replaced on October 25, 2017, due to suspect voltage identified during diagnosis of the bedrock well pump failure.
- Remote communication with the groundwater migration control system PLC had been lost on August 26, 2016, due to failure of the plant phone system. Outgoing communication was restored on September 7, 2016, providing alarm notification by phone and fax and daily fax notification of operating status. Full two-way remote communication was restored on November 17, 2016, through installation of a new AT&T phone line. Remote communication was again lost on January 24, 2017, due to moisture in an underground section of the phone line near the migration control building. This section of phone line was replaced by AT&T on January 27, 2017, restoring remote communication.
- A new planned overburden well, identified in the sampling schedule as Well A, has not yet been
 installed. Installation of this well, planned on Spears property north of Northwoods Blvd., had been
 delayed pending finalization of an access agreement with the property owner. In the 2016 Three-year
 Assessment Report, based on the last three years of monitoring data in upgradient monitoring well
 MW-730 trending to near non-detect levels for VOCs, H&A had recommended that the new well on
 Spears property not be installed.

- Since January, 2014, a hydraulic low related to downward flow of groundwater from the Top-of-Rock interval to the Deep Bedrock interval (where it is captured by the Groundwater Migration Control System) has shifted. Prior to this date, the center of this feature was located near MW-424S, which consistently had exhibited the lowest water level compared to surrounding Top-of-Rock wells. Since this date, MW-423S has exhibited the lowest water level in this area. Shifting patterns of groundwater flow in the Top-of-Rock interval are being evaluated using data collected from pressure transducers, which were deployed in five Top-of-Rock wells between November 2015 and August 2016. Also, a surface geophysical survey was conducted on May 17-19, 2016, in selected areas along the north property boundary, in an effort to identify the nature and location of the inferred vertical conduit, assumed to be one or more improperly abandoned historic water supply wells. Two prominent magnetic anomalies were identified in the vicinity of the groundwater depression, which appear to coincide with former structures shown on historical aerial photographs. The outcome of the evaluation of the Top-of-Rock hydraulic low will be presented to the EPA in a separate document at a future date.
- Rising VOC concentrations have been observed at Water Table monitoring well MW-806. While historical VOC concentrations in this well have been at or near detectable limits, concentrations in groundwater samples collected between 2014 and 2016 have exhibited pronounced rising trends for several compounds. Concentrations of cis-1,2-DCE have risen from below detectable limits to 16,000 ug/l in the most recent samples collected in February, 2016, and November, 2016. Also, concentrations of 1,1-DCA and vinyl chloride have risen from below detectable limits to 290 ug/l and 36 ug/l, respectively. The rising concentration trends at MW-806 suggest locally changing site conditions. Recently installed downgradient monitoring wells MW-814 and MW-815, which are screened across the Water Table and First Sand intervals, have shown no significant detections of VOCs. Two additional monitoring wells were proposed in the 2016 Three-year Assessment Report (one between MW-814 and MW-815 and one between MW-814 and MW-810) to improve downgradient spacing of the monitoring well network and enhance monitoring of potential plume movement.
- Intermittent elevated VOC concentrations have been observed in surface water samples collected from the unnamed tributary to North Creek. The series of concentration peaks, which typically occur during wetter seasons, have suggested a generally increasing trend in VOC concentrations. An investigation to identify possible sources of VOCs in surface water is currently in progress.

Project Schedule

An updated project schedule is included in Attachment G.

Feel free to contact me at (248) 743-3758 if you have any questions or require additional information.

Sincerely,

Automotive States of the states

James Hunt

Project Manager for MAHLE Behr Properties LLC

MAHLE Industries, Incorporated

jim.hunt@us.mahle.com

Enclosures:

Tables

- 1 Schedule of Groundwater Sampling/Water Level Measurements
- 2 Fourth Quarter 2016 Analytical Results, Overburden and Bedrock Monitoring Wells
- Fourth Quarter 2016 and First Quarter 2017 Analytical Results, Surface Water and Sugar Rock Spring Samples
- Fourth Quarter 2016 and First Quarter 2017 Performance Monitoring Analytical Data, Groundwater Migration Control System

Figures

- 1 Fourth Quarter 2016 Wells Sampled
- 2 Fourth Quarter 2016 & First Quarter 2017 Surface Water Sampling Locations and TCE Results
- 3 Outcrop Survey, December 2016, Spring Sample Locations, TCE and DCE Results
- 4 Potentiometric Surface Contours, Shallow Water Table Zone, 21 November 2016
- 5 Potentiometric Surface Contours, Shallow Water Table Zone, 24 March 2017
- 6 Potentiometric Surface Contours, First Sand Zone, 21 November 2016
- 7 Potentiometric Surface Contours, First Sand Zone, 24 March 2017
- 8 Potentiometric Surface Contours, Second Sand Zone, 21 November 2016
- 9 Potentiometric Surface Contours, Second Sand Zone, 24 March 2017
- 10 Potentiometric Surface Contours, Top of Bedrock Zone, 22 November 2016
- 11 Potentiometric Surface Contours, Top of Bedrock Zone, 31 January 2017
- 12 Deep Bedrock Potentiometric Surface Contours, 13 October 2016
- 13 Deep Bedrock Potentiometric Surface Contours, 22 November 2016
- 14 Deep Bedrock Potentiometric Surface Contours, 20 December 2016
- 15 Deep Bedrock Potentiometric Surface Contours, 30 January 2017
- 16 Deep Bedrock Potentiometric Surface Contours, 24 February 2017
- 17 Deep Bedrock Potentiometric Surface Contours, 29 March 2017
- 18 Fourth Quarter 2016 TCE in Sugar Rock

<u>Attachments</u>

- A Water Level Measurements
- B Data Usability Summary Reports
- C Groundwater Migration Control System Monthly Discharge Reports
- D Groundwater Migration Control System Activity Log
- E Groundwater Migration Control System Inspection Checklists
- F Bedrock Groundwater Migration Control System Shutdown Reports
- G Project Schedule

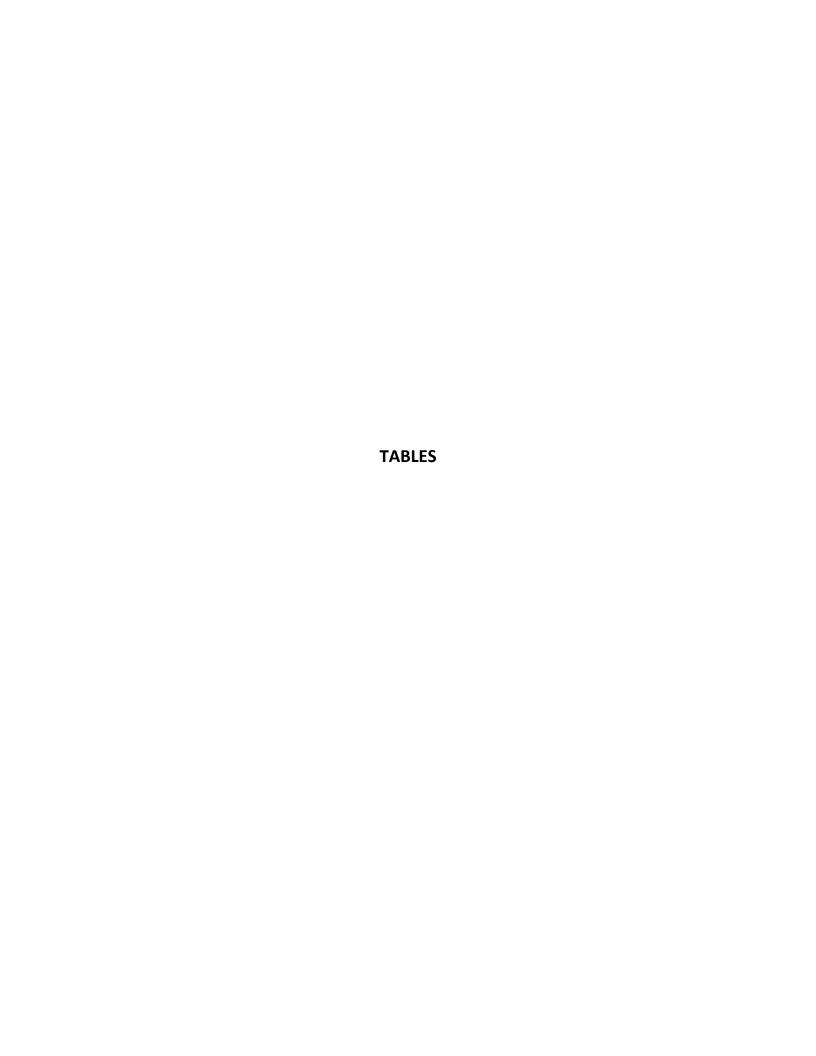


TABLE 1 2016-2017 GROUNDWATER SAMPLING / WATER LEVEL MEASUREMENTS MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Sam	ทยาทศ	

MW-746

MW-759

MW-800

MW-807

SW-1

SW-4

B005

B006

C001

D001

E001

E002

F001

G004

G006

S2

S2

S2

S2

North Creek

North Creek

SR Spring

15 months

9 months

9 months

15 months

Quarterly

Quarterly

9 months

Location	Unit	Frequency	4Q-2016	1Q-2017	2Q-2017	3Q-2017
CSX-18D	SR	15 months			✓	
MW-402D	SR	15 months			✓	
MW-411D	SR	15 months			✓	
MW-412D	SR	15 months			✓	
MW-413D	SR	9 months	√			✓
MW-416D	SR	9 months	✓			✓
MW-417D	SR	9 months	✓			√
MW-418D	SR	9 months	✓			√
MW-420M	МВ	9 months	✓			✓
MW-420D	SR	9 months	√			✓
MW-424D	SR	15 months			√	
MW-434D	SR	15 months			√	
MW-435D	SR	15 months			√	
MW-444D	SR	15 months	+		√	
MW-453D	SR	15 months				
10100-433D	JOIN .	15 months				
MW-301S	TOR	15 months			✓	
MW-415S	TOR	15 months			√	
MW-425S	TOR	9 months	✓			✓
MW-426S	TOR	15 months			√	
MW-445S	TOR	15 months			√	
MW-446S	TOR	15 months			_	
	1.0	15 1110111113	1			
MW-784	WT	15 months			✓	
MW-806	WT	9 months	√			✓
MW-810	WT	9 months	√			✓
MW-607	WT/S1	9 months	√			✓
MW-729	WT/S1	15 months			✓	
MW-734	WT/S1	15 months			√	
MW-775	WT/S1	9 months	✓			✓
MW-793	WT/S1	15 months			√	
MW-796	WT/S1	15 months	+		√	
MW-776	WT/S1	9 months				_
VPW-103	WT/S1	15 months	-		_	
MW-730	S1	9 months	 		•	_
MW-732	S1	9 months	+ -			-
MW-809	S1/S2	15 months	+		_	
MW-787	WT	15 months	+		· ·	
MW-715	S1				./	
Well A*	S1	15 months			•	_
		9 months	+ 🗸			· ·
MW-814	WT/S1	9 months	 			V
MW-815	WT/S1	9 months				V
MW-515	S2	15 months			✓	
MW-605	S2	9 months	 		 	_
MW-717	S2	9 months	· /			
MW-725	S2	9 months	'			· /
MW-731	S2 S2	9 months	+ -			· ·
			 		-	✓
MW-740 MW-741	S2	9 months				V
	S2	9 months	+ -		✓	-
MW-742	S2 S2	15 months			_ *	_

Water Level Measurements

Frequency
Monthly
Quarterly
Quarterly

Unit Key

Unit	Description
WT	Water Table
S1	First Sand
S2	Second Sand
TOR	Top Of Rock
MB	Middle Brassfield
SR	Sugar Rock

Notes:

 Denotes wells to be installed and their sampling schedule. Actual well nomenclature will be made after installation.

TABLE 2
FOURTH QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location	MW-413D	MW-416D	MW-417D	MW-418D	MW-420D	MW-420D	MW-420M	MW-425S	MW-605
Sample Date	12/01/2016	12/02/2016	12/02/2016	12/01/2016	12/02/2016	12/02/2016	12/02/2016	12/01/2016	11/28/2016
Unit	SR	SR	SR	SR	SR	SR	MB	TOR	S2
Sample Type	N	N	N	N	N	FD	N	N	N
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	< 1	< 1	< 1	< 5	0.4 J	0.39 J	< 25	12 J	< 1
Benzene	< 1	< 1	< 1	< 5	1.1 J	1.2 J	< 25	< 20	< 1
Chloroform (Trichloromethane)	< 1	< 1	< 1	< 5	< 1.4	< 1.4	< 25	< 20	< 1
cis-1,2-Dichloroethene	3.4	16	23	3.6 J	39	41	510	300	< 1
Ethylbenzene	< 1	< 1	< 1	< 5	< 1.4	< 1.4	< 25	< 20	< 1
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 5	0.43 J	< 1.4	< 25	< 20	< 1
Trichloroethene	1	< 1	< 1	< 5	1.9	1.9	340	480	0.77 J
Trichlorofluoromethane (CFC-11)	< 1	< 1	< 1	< 5	< 1.4	< 1.4	< 25	< 20	< 1
Vinyl chloride	< 1	16	21	78	9.7	10	19 J	12 J	< 1
Xylene (total)	< 2	< 2	< 2	< 10	< 2.9	< 2.9	< 50	< 40	< 2

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location		MW-717	MW-725	MW-730	MW-730	MW-731	MW-731	MW-732	MW-740
Sample Date		11/29/2016	11/29/2016	12/02/2016	12/02/2016	11/29/2016	11/29/2016	11/28/2016	11/30/2016
Unit	WT/S1	S2	S2	S1	S1	S2	S2	S1	S2
Sample Type	N	N	N	N	FD	N	FD	N	N
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	0.36 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform (Trichloromethane)	2.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	1.5	< 1	< 1	17	18	< 1	< 1	0.33 J	< 1
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 1	< 1	0.8 J	0.85 J	< 1	< 1	< 1	< 1
Trichloroethene	14	< 1	< 1	5.1	5	< 1	< 1	< 1	< 1
Trichlorofluoromethane (CFC-11)	0.54 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	< 1	3.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
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- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location	MW-741	MW-743	MW-759	MW-775	MW-776	MW-800	MW-800	MW-806	MW-810
Sample Date	12/01/2016	11/30/2016	12/01/2016	12/01/2016	11/30/2016	12/01/2016	12/01/2016	11/30/2016	11/29/2016
Unit	S2	S2	S2	WT	WT/S1	S2	S2	WT	WT
Sample Type	N	N	N	N	N	N	FD	N	N
Volatile Organic Compounds (ug/L)									
1,1-Dichloroethane	< 1	< 1	< 2	< 1	< 1	< 1	< 1	220 J	< 1
Benzene	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 710	< 1
Chloroform (Trichloromethane)	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 710	< 1
cis-1,2-Dichloroethene	< 1	< 1	42	< 1	< 1	< 1	< 1	16000	< 1
Ethylbenzene	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 710	< 1
trans-1,2-Dichloroethene	< 1	< 1	2.3	< 1	< 1	< 1	< 1	360 J	< 1
Trichloroethene	< 1	< 1	3.3	< 1	< 1	< 1	< 1	< 710	< 1
Trichlorofluoromethane (CFC-11)	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 710	< 1
Vinyl chloride	< 1	< 1	52	< 1	< 1	< 1	< 1	< 710	< 1
Xylene (total)	< 2	< 2	< 4	< 2	< 2	< 2	< 2	< 1400	< 2

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 2
FOURTH QUARTER 2016 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Location	MW-814	MW-815
	Sample Date	11/30/2016	11/30/2016
	Unit	WT/S1	WT/S1
	Sample Type	N	N
V I ("	<i>m</i> >		
Volatile Organic Compounds (ıg/L)		
1,1-Dichloroethane		< 1	< 1
Benzene		< 1	< 1
Chloroform (Trichloromethane)		< 1	< 1
cis-1,2-Dichloroethene		< 1	< 1
Ethylbenzene		< 1	0.28 J
trans-1,2-Dichloroethene		< 1	< 1
Trichloroethene		< 1	< 1
Trichlorofluoromethane (CFC-11))	< 1	< 1
Vinyl chloride		< 1	< 1
Xylene (total)		< 2	2 R

- 1. Summary includes VOC compounds detected in one or more samples.
- 2. Analysis method SW8260.
- 3. See Figure 1 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- R: Rejected during validation
- 5. Sample type codes: N Normal, FD Field Duplicate

TABLE 3
FOURTH QUARTER 2016 AND FIRST QUARTER 2017 ANALYTICAL RESULTS
SURFACE WATER AND SUGAR ROCK SPRING SAMPLES
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Location Group		North	Creek					Spings			
Location	SW-1	SW-1	SW-4	SW-4	B005	B006	C001	D001	E001	F001	G004
Sample Date	12/29/2016	02/23/2017	12/29/2016	02/23/2017	12/07/2016	12/07/2016	12/07/2016	12/07/2016	12/07/2016	12/07/2016	12/07/2016
Sample Type	N	N	N	N	N	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)											
1,1,1-Trichloroethane	1.1	< 1	13	3.9	< 1	< 1	< 1	< 5	< 5	< 1	< 1
1,1-Dichloroethane	< 1	< 1	1.9 J	0.99 J	< 1	< 1	< 1	< 5	< 5	< 1	< 1
Chloroform (Trichloromethane)	< 1	< 1	< 6.7	< 2	< 1	< 1	< 1	< 5	< 5	7.1	< 1
cis-1,2-Dichloroethene	6.8	0.67 J	80	27	< 1	< 1	10	5.8	16	< 1	1
Tetrachloroethene	< 1	< 1	< 6.7	< 2	< 1	< 1	< 1	< 5	< 5	0.3 J	< 1
trans-1,2-Dichloroethene	< 1	< 1	< 6.7	< 2	< 1	< 1	0.9 J	2.6 J	1.8 J	< 1	< 1
Trichloroethene	12	0.92 J	140	53	1.1	1.1	38	110	88	< 1	2
Vinyl chloride	< 1	< 1	3.9 J	1.8 J	< 1	< 1	< 1	< 5	< 5	< 1	< 1

- 1. Summary includes compounds detected in one or more samples
- 2. Analysis methods SW8260.
- 3. See figures 2 and 3 for sample locations.
- 4. <: Result is below the indicated reporting limit.
 - J: Estimated result.
- 5. Sample type codes: N Normal

TABLE 4
FOURTH QUARTER 2016 AND FIRST QUARTER 2017
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Sample Name	BRIN-101116	OBIN-101116	SSIN-101116	PREAS-101116	EFF-101116
Sample Date	10/11/2016	10/11/2016	10/11/2016	10/11/2016	10/11/2016
Location	Sugar Rock	Overburden	Second Sand		
Sample Type	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Effluent
	< 50	459	< 200	< 100	< 1
	< 50	< 400	209	< 100	< 1
	841	1840	2820	1040	< 1
	2230	14500	11300	3220	1.27
	-	_	-	7.2 HF	8.5 HF
	Sample Date Location	Sample Date Location Sample Type Column	Sample Date Location 10/11/2016 Sugar Rock 10/11/2016 Overburden Sample Type Recovery Well Recovery Well < 50	Sample Date Location Sample Type 10/11/2016 Sugar Rock Recovery Well 10/11/2016 Overburden Recovery Well 10/11/2016 Second Sand Recovery Well < 50	Sample Date Location Sample Type 10/11/2016 Sugar Rock Recovery Well 10/11/2016 Overburden Recovery Well 10/11/2016 Second Sand Recovery Well 10/11/2016 Pre Air Stripper < 50

- 1. < #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- 2. Results in bold are detected.
- 3. Analysis method for Volatile Organic Compounds is EPA 624.
- 4. Lab qualifiers:

TABLE 4
FOURTH QUARTER 2016 AND FIRST QUARTER 2017
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Sample Name	BRIN-110916	OBIN-110916	SSIN-110916	PREAS-110916	EFF-110916
	Sample Date	11/09/2016	11/09/2016	11/09/2016	11/09/2016	11/09/2016
	Location	Sugar Rock	Overburden	Second Sand		
	Sample Type	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Effluent
Volatile Organic Compounds (ug/L)						
1,1,1-Trichloroethane		< 50	591	< 200	< 100	< 1
1,1-Dichloroethane		< 50	< 200	240	< 100	< 1
cis-1,2-Dichloroethene		887	1830	2800	1020	< 1
Trichloroethene		2590	16800	11700	3620	1.99
_ab Method: SM4500 H+B						
oH (lab) - S.U. (standard units)		-	_	-	7.1 HF	8.4 HF

- 1. < #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- 2. Results in bold are detected.
- 3. Analysis method for Volatile Organic Compounds is EPA 624.
- 4. Lab qualifiers:

TABLE 4
FOURTH QUARTER 2016 AND FIRST QUARTER 2017
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

	Sample Name	BRIN-121516	OBIN-121516	SSIN-121516	PREAS-121516	EFF-121516
	Sample Date	12/15/2016	12/15/2016	12/15/2016	12/15/2016	12/15/2016
	Location	Sugar Rock	Overburden	Second Sand		
	Sample Type	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Effluent
Volatile Organic Compounds (ug/L)						
I,1,1-Trichloroethane		< 50	353	< 200	< 100	< 1
1,1-Dichloroethane		< 50	61	211	< 100	< 1
cis-1,2-Dichloroethene		734	1290	2600	758	< 1
Trichloroethene		2400	13100	11300	2900	< 1
Lab Method: SM4500 H+B						
oH (lab) - S.U. (standard units)		_	_	-	7.3 HF	8.5 HF

- 1. < #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- 2. Results in bold are detected.
- 3. Analysis method for Volatile Organic Compounds is EPA 624.
- 4. Lab qualifiers:

TABLE 4
FOURTH QUARTER 2016 AND FIRST QUARTER 2017
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Sample Name	BRIN-010917	OBIN-010917	SSIN-010917	PREAS-010917	EFF-010917
Sample Date	01/09/2017	01/09/2017	01/09/2017	01/09/2017	01/09/2017
Location	Sugar Rock	Overburden	Second Sand		
Sample Type	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Effluent
	< 50	676	< 400	< 100	< 1
	< 50	< 500	< 400	< 100	< 1
	774	1890	2860	913	< 1
	2600	21400	12500	4020	< 1
	-	-	-	7.2 HF	8.4 HF
	Sample Date Location	Sample Date Location Sample Type Control Location Sample Type Control C	Sample Date Location Sample Type 01/09/2017 Sugar Rock Recovery Well 01/09/2017 Overburden Recovery Well < 50 < 50 < 774	Sample Date Location Sample Type 01/09/2017 O1/09/2017 O1/0	Sample Date Location Sugar Rock Sample Type 01/09/2017 O1/09/2017 O1/0

- 1. < #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- 2. Results in bold are detected.
- 3. Analysis method for Volatile Organic Compounds is EPA 624.
- 4. Lab qualifiers:

TABLE 4
FOURTH QUARTER 2016 AND FIRST QUARTER 2017
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

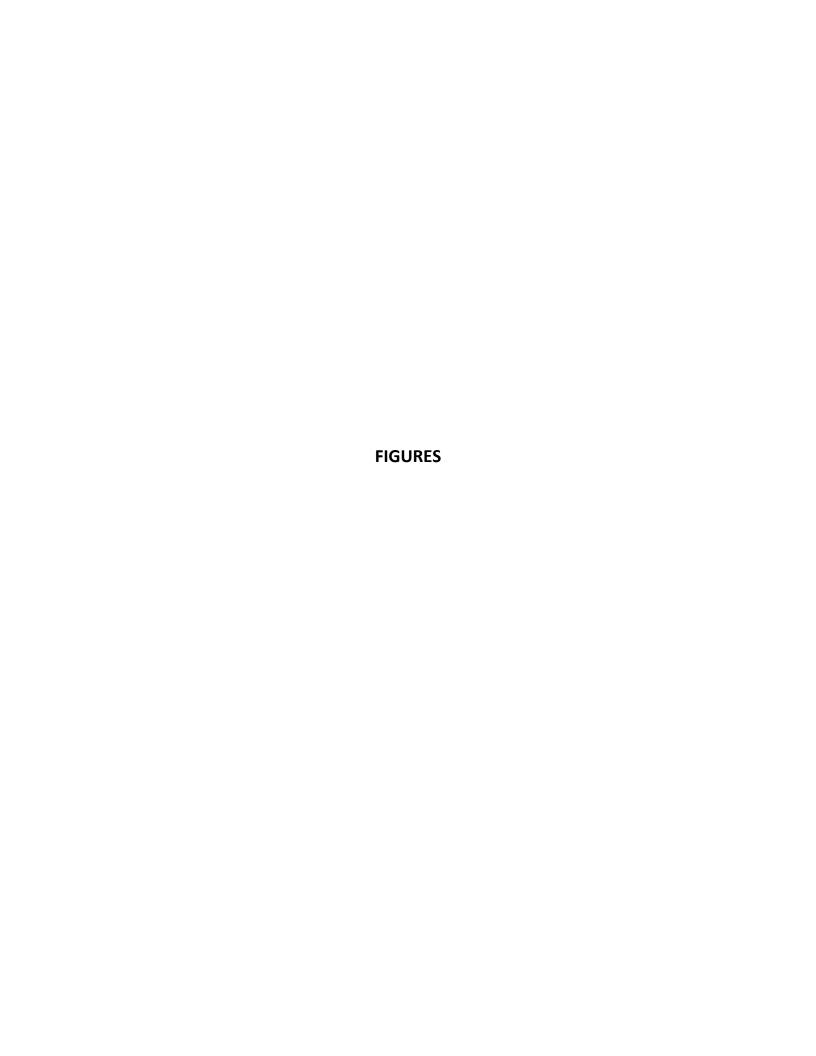
Sai	nple Name	BRIN-020817	OBIN-020817	SSIN-020817	PREAS-020817	EFF-020817
Sa	ample Date	02/08/2017	02/08/2017	02/08/2017	02/08/2017	02/08/2017
	Location	Sugar Rock	Overburden	Second Sand		
Sa	mple Type	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Effluent
Volatile Organic Compounds (ug/L)						
1,1,1-Trichloroethane		< 50	438	< 200	< 100	< 1
1,1-Dichloroethane		< 50	< 400	< 200	< 100	< 1
cis-1,2-Dichloroethene		620	1270	2210	756	< 1
Trichloroethene		2110	16000	10800	3830	2.44
Lab Method: SM4500 H+B						
pH (lab) - S.U. (standard units)		-	-	-	8.6 HF	7.4 HF

- 1. < #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- 2. Results in bold are detected.
- 3. Analysis method for Volatile Organic Compounds is EPA 624.
- 4. Lab qualifiers:

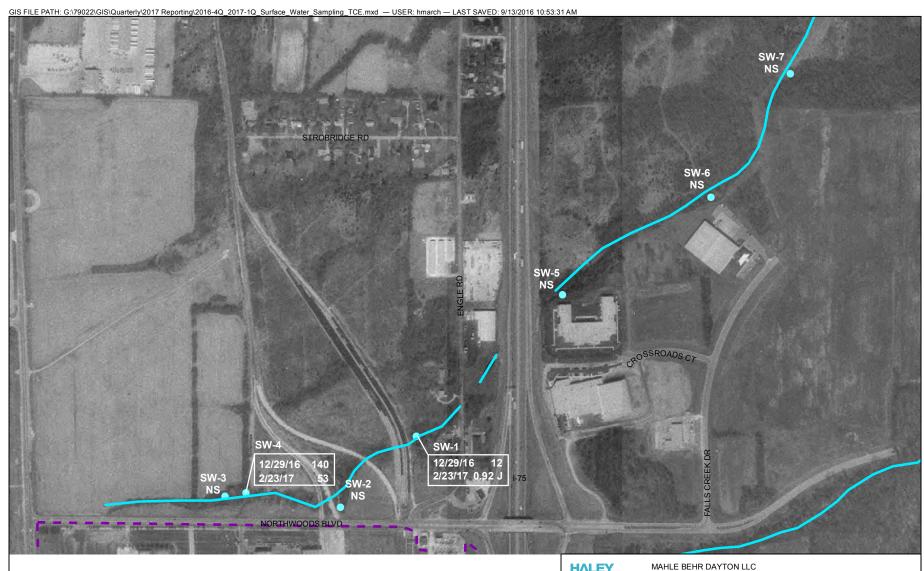
TABLE 4
FOURTH QUARTER 2016 AND FIRST QUARTER 2017
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Sample Name	BRIN-032217	OBIN-032217	SSIN-032217	PREAS-032217	EFF-032217
Sample Date	03/22/2017	03/22/2017	03/22/2017	03/22/2017	03/22/2017
Location	Sugar Rock	Overburden	Second Sand		
Sample Type	Recovery Well	Recovery Well	Recovery Well	Pre Air Stripper	Effluent
	< 50	< 400	< 200	< 100	< 1
	< 50	< 400	< 200	< 100	< 1
	977	1000	1570	942	< 1
	2800	10600	9630	4220	2.01
	-	-	-	7.2 HF	8.4 HF
	Sample Date Location	Sample Date Location Sample Type Control Contr	Sample Date Location 03/22/2017 Sugar Rock 03/22/2017 Overburden Sample Type Recovery Well Recovery Well < 50	Sample Date Location 03/22/2017 Sugar Rock 03/22/2017 Overburden 03/22/2017 Second Sand Recovery Well Sample Type Recovery Well Recovery Well Recovery Well < 50	Sample Date Location 03/22/2017 Sugar Rock 03/22/2017 Overburden 03/22/2017 Second Sand Recovery Well 03/22/2017 Pre Air Stripper < 50

- 1. < #: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- 2. Results in bold are detected.
- 3. Analysis method for Volatile Organic Compounds is EPA 624.
- 4. Lab qualifiers:







LEGEND

APPROXIMATE FACILITY BOUNDARY

APPROXIMATE LOCATION OF THE UNNAMED TRIBUTARY OF NORTH CREEK

SW-1 APPROXIMATE SAMPLE LOCATION

WITH TCE RESULT IN ug/I

NOT SAMPLED



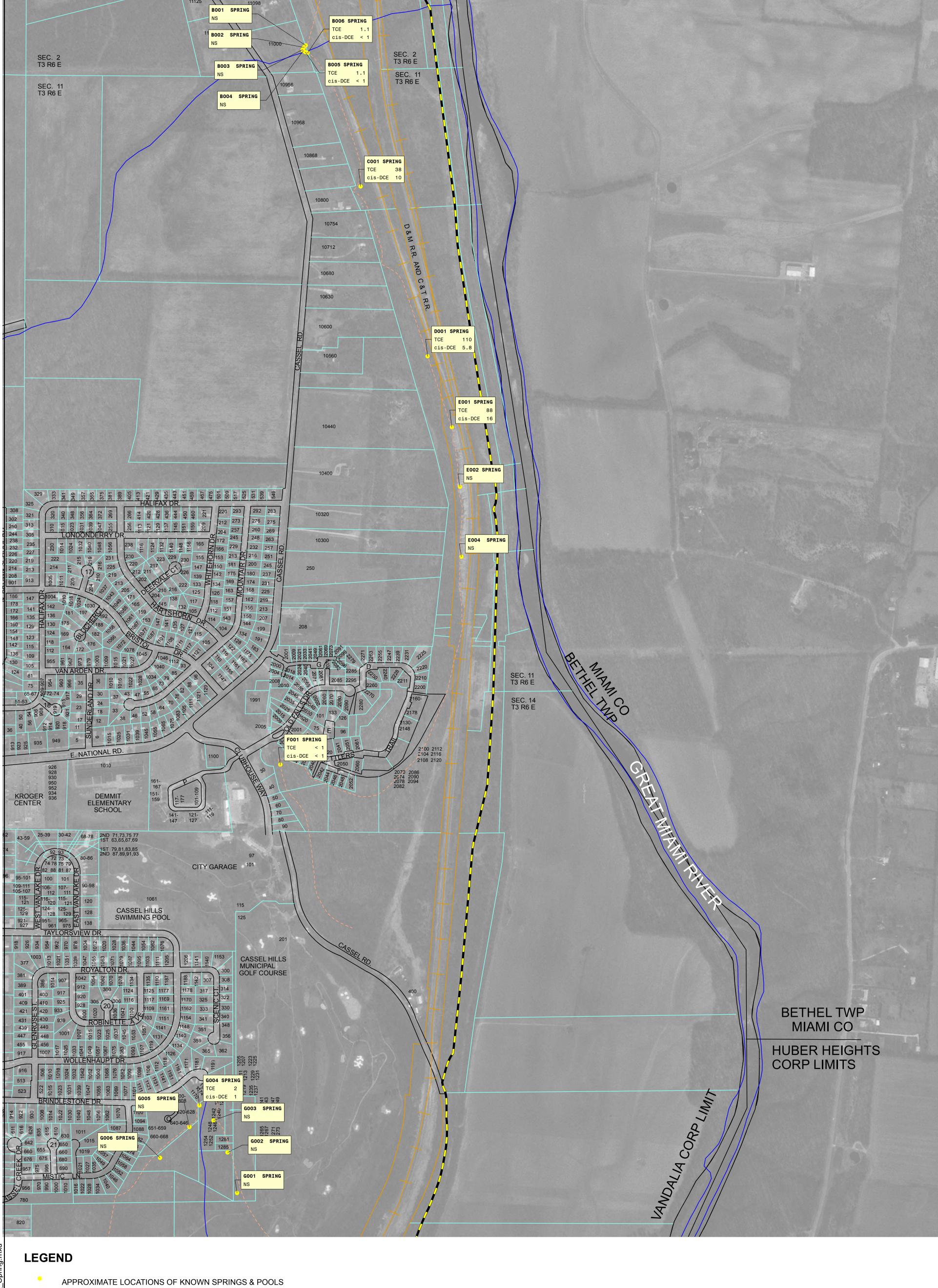


HALEY ALDRICH

MAHLE BEHR DAYTON LLC VANDALIA, OHIO

FOURTH QUARTER 2016 & FIRST QUARTER 2017 SURFACE WATER SAMPLING LOCATIONS AND TCE RESULTS

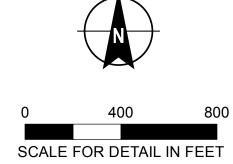
SCALE: AS SHOWN APRIL 2017



- INFERRED BRASSFIELD-BELFAST OUTCROP CONTACT
- **RAILROAD**
- **ROADWAYS**
 - SURFACE WATER
 - NORTHERN SEGMENT OF THE GREAT MIAMI RIVER RECREATION TRAIL

PARCEL BOUNDARY

- NOTES:
- AERIAL PHOTOGRAPH AND SURFACE FEATURES PROVIDED BY ODOT.
 PARCEL BOUNDARIES AND ROADWAYS PROVIDED BY THE CITY OF VANDALIA.
- 3. LOCATIONS ARE APPROXIMATE.
- 4. NS NOT SAMPLED 5. RESULTS ARE IN UG/L.
- 6. SPRING LOCATIONS E001, E002, AND F001 WERE DRY AT THE TIME OF SAMPLING.

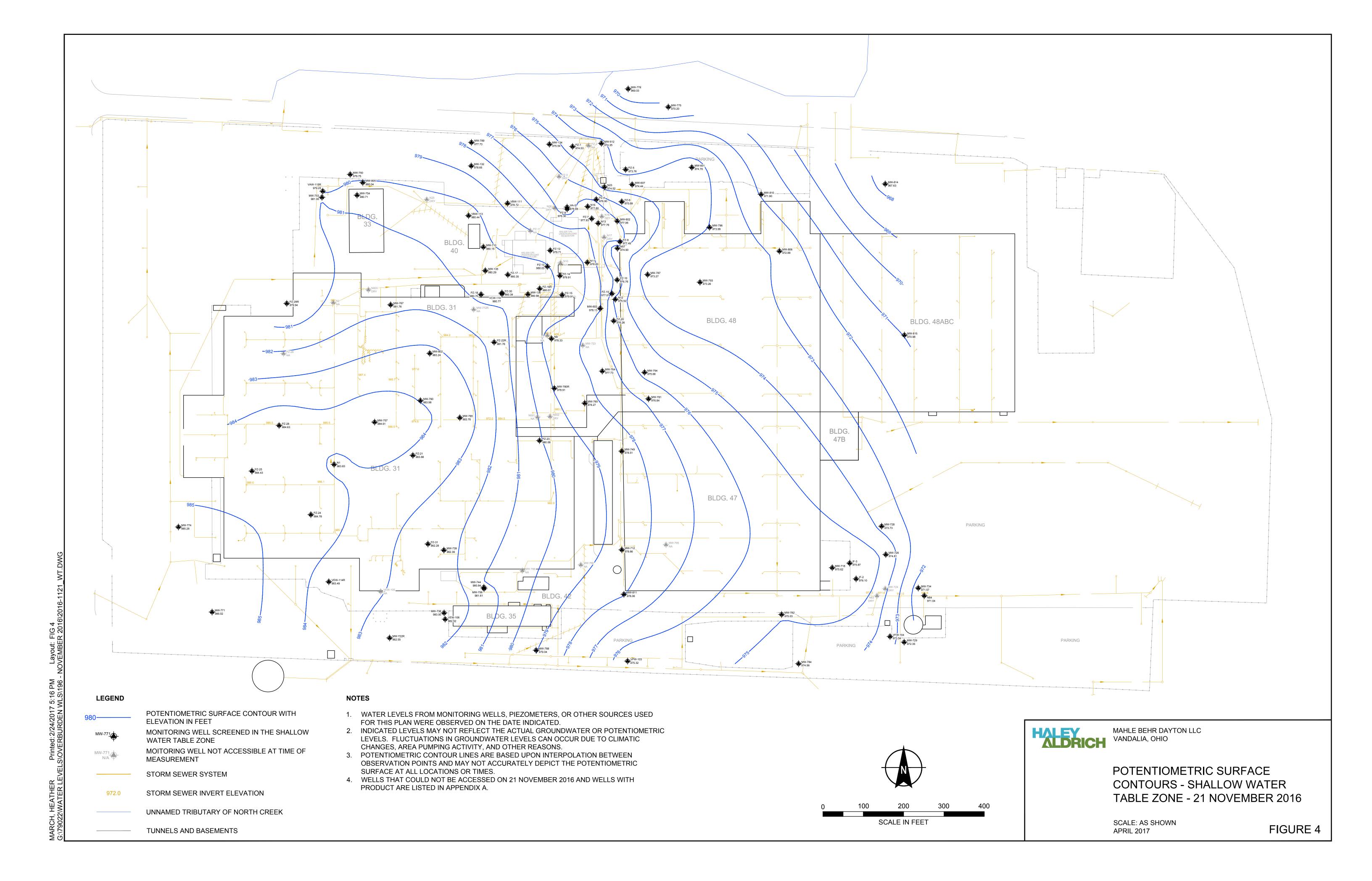


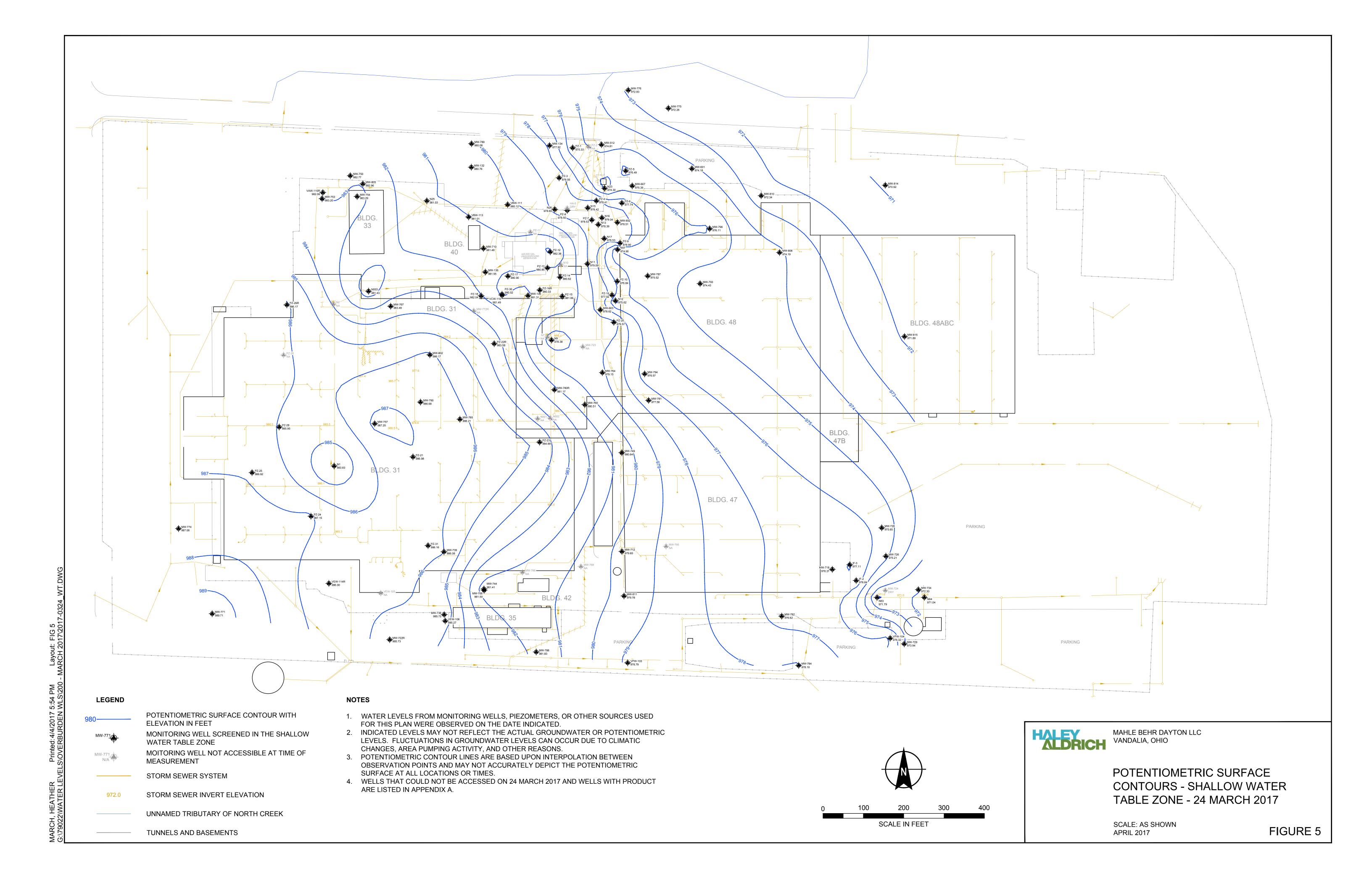
ALDRICH ALDRICH

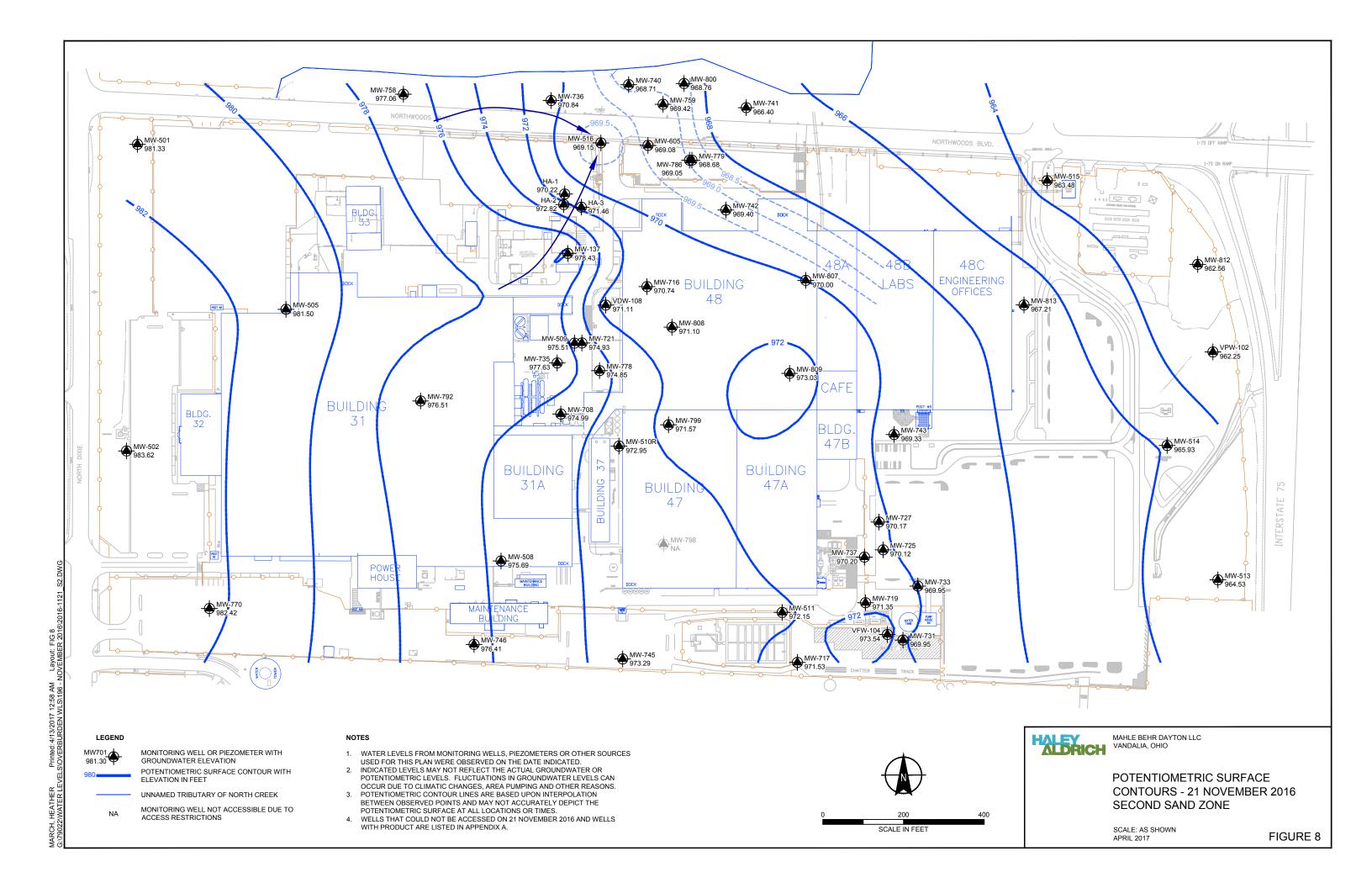
MAHLE BEHR DAYTON LLC VANDALIA, OHIO

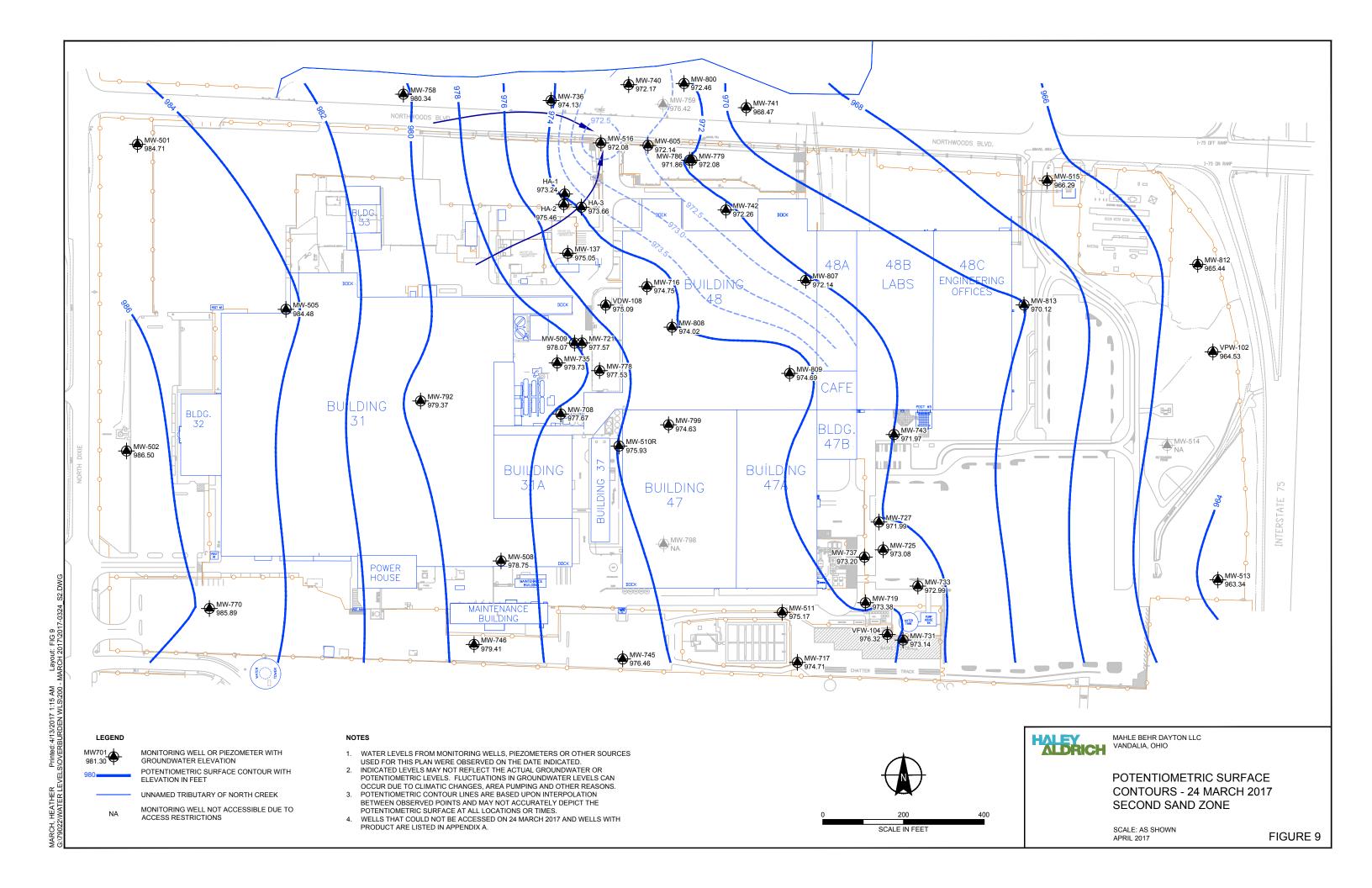
OUTCROP SURVEY DECEMBER 2016 SPRING SAMPLE LOCATIONS TCE & DCE RESULTS

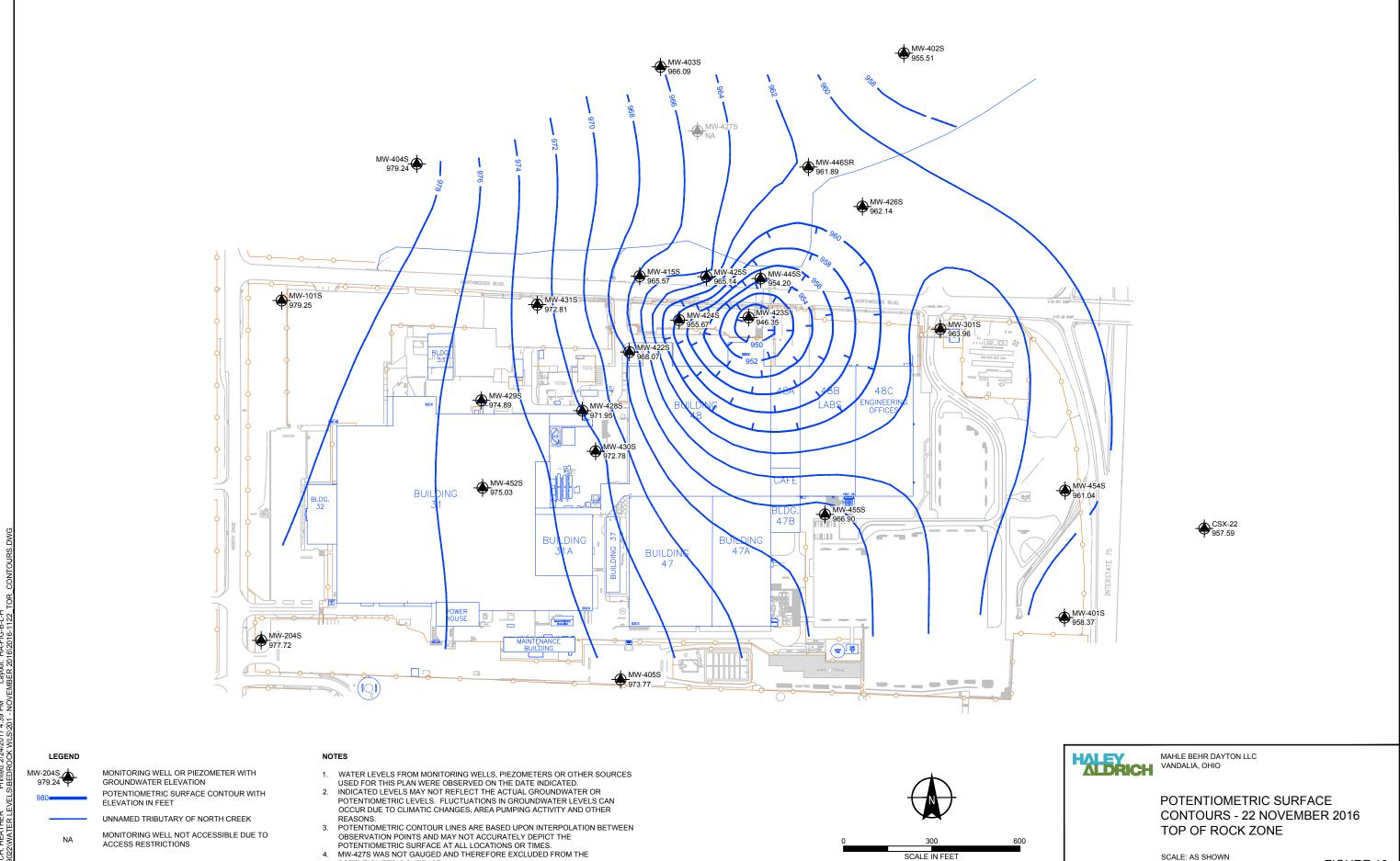
SCALE: AS SHOWN **APRIL 2017**





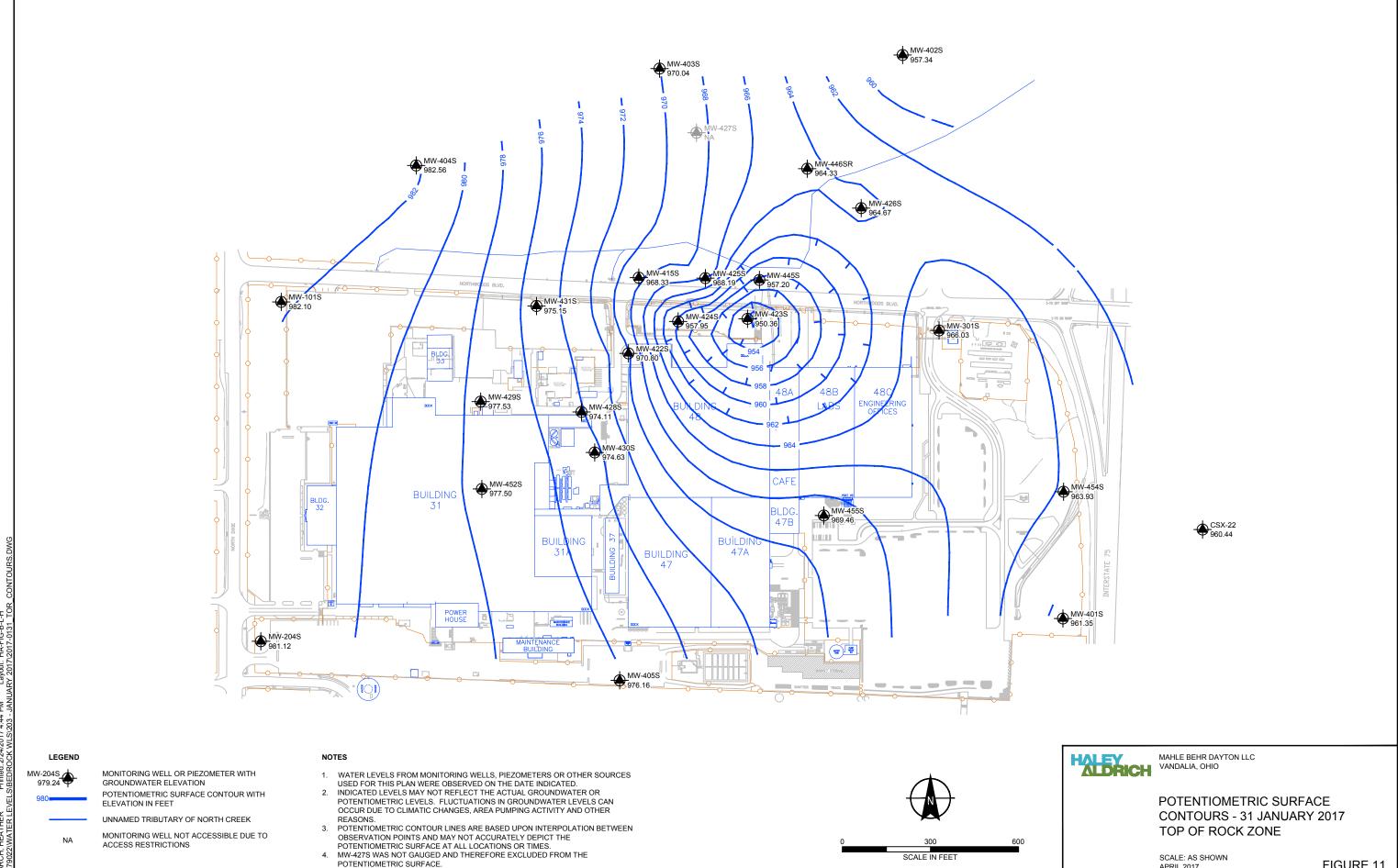




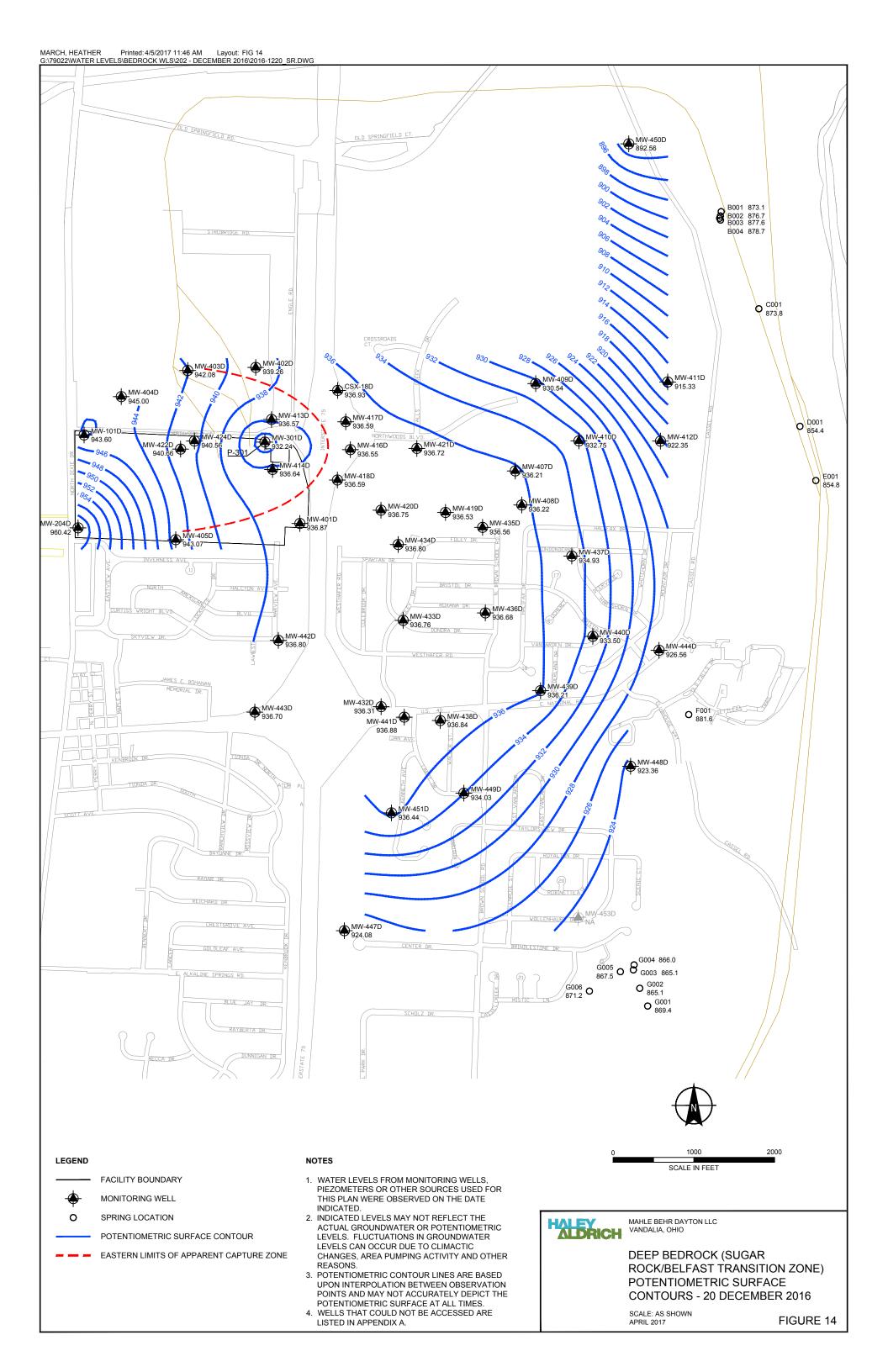


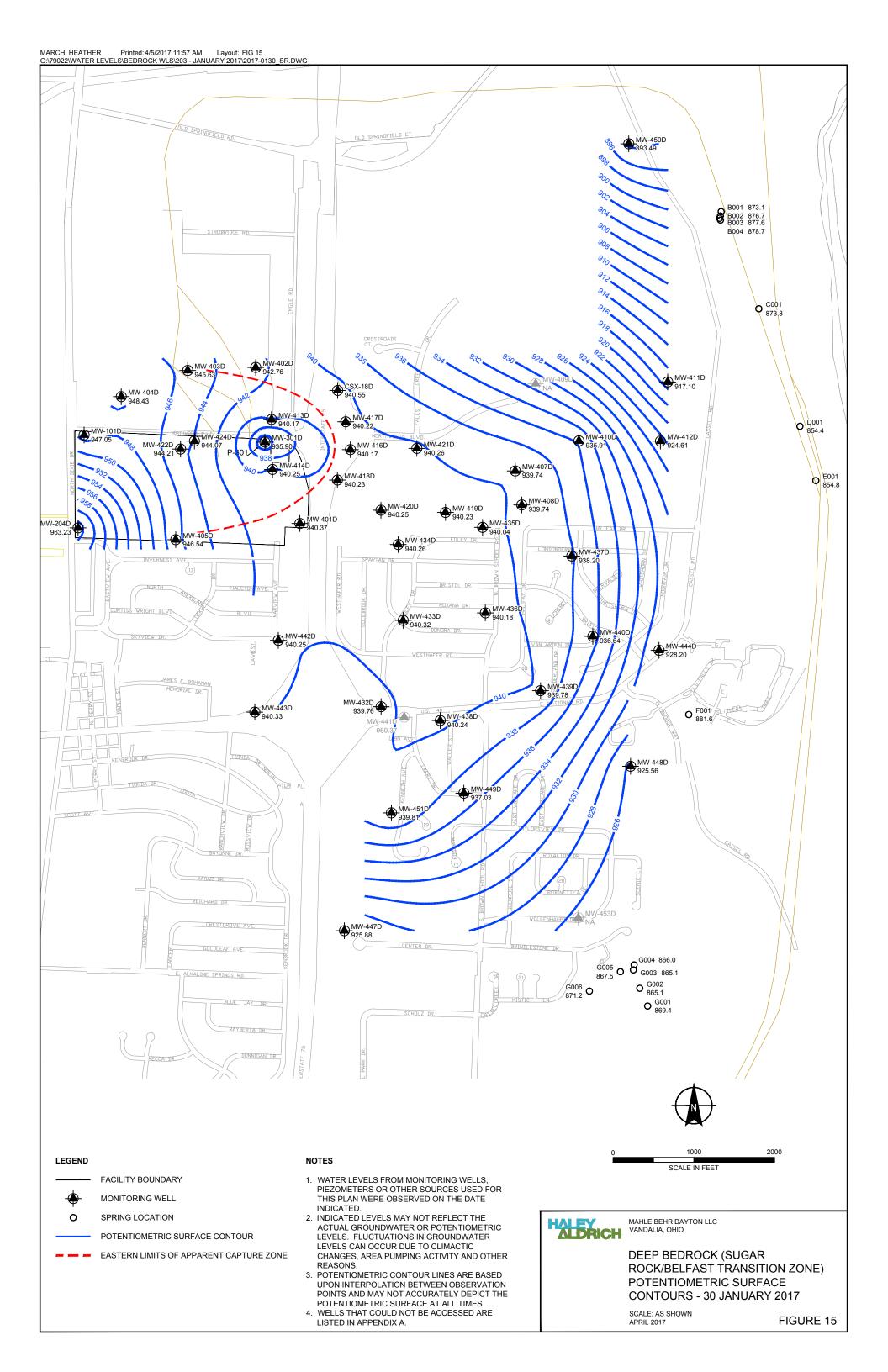
POTENTIOMETRIC SURFACE.

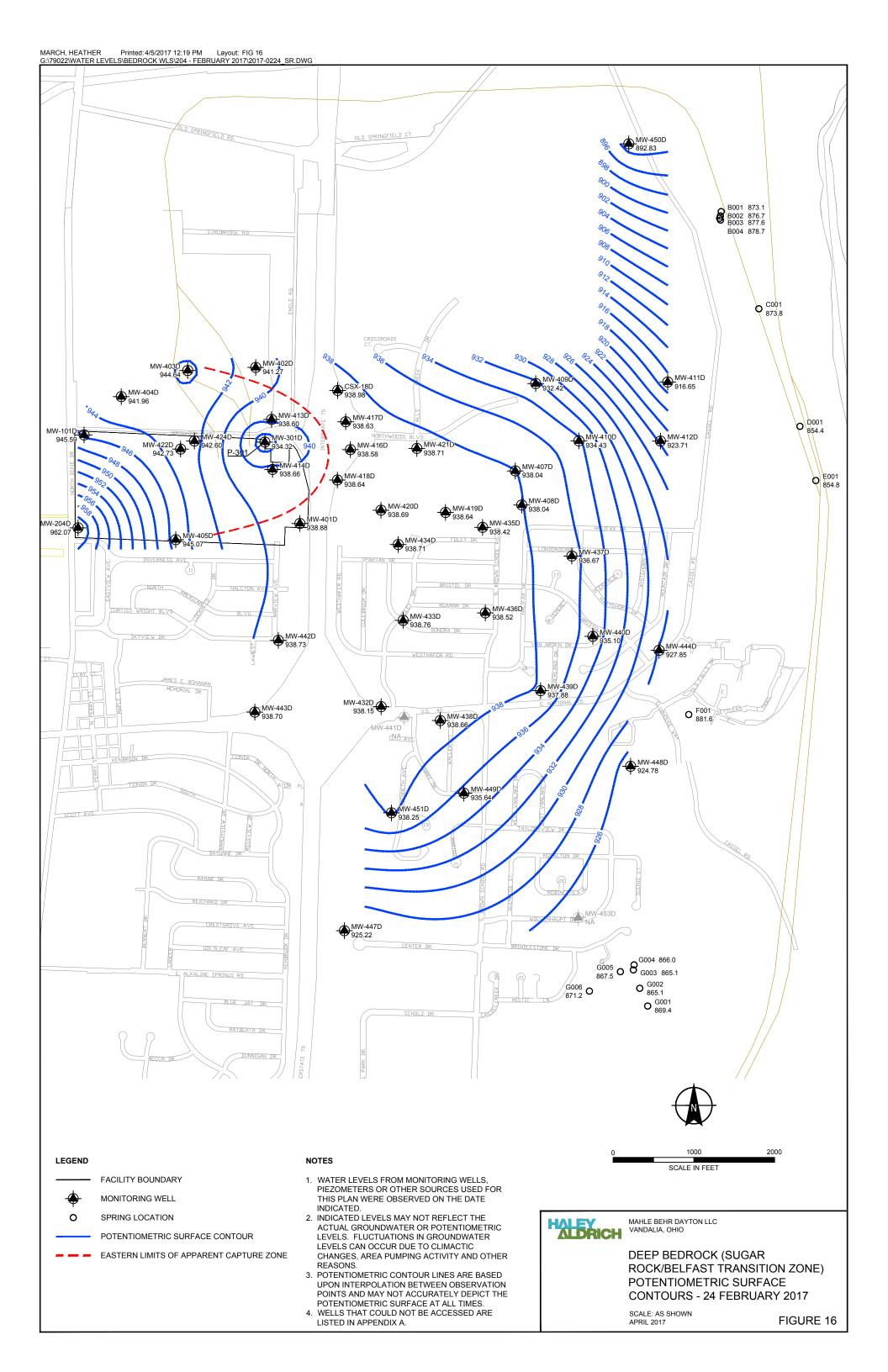
SCALE: AS SHOWN APRIL 2017



APRIL 2017









APPENDIX A

Water Level Measurements

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	10/13/2016	10:03	28.23	964.96	936.73	
MW-101D	SR	10/13/2016	12:39	44.42	988.15	943.73	
MW-204D	SR	10/13/2016	12:36	33.89	994.26	960.37	
MW-301D	SR	10/13/2016	9:44	38.37	970.44	932.07	
MW-401D	SR	10/13/2016	13:48	38.05	974.57	936.52	
MW-402D	SR	10/13/2016	10:22	27.19	966.36	939.17	
MW-403D	SR	10/13/2016	13:25	34.64	977.36	942.72	
MW-404D	SR	10/13/2016	12:45	43.64	988.83	945.19	
MW-405D	SR	10/13/2016	13:32	39.21	982.45	943.24	
MW-407D	SR	10/13/2016	14:16	20.44	956.24	935.80	
MW-408D	SR	10/13/2016	14:21	21.27	957.07	935.80	
MW-409D	SR	10/13/2016	14:08	11.79	942.49	930.70	
MW-410D	SR	10/13/2016	14:28	15.20	947.63	932.43	
MW-411D	SR	10/13/2016	11:17	27.76	943.43	915.67	
MW-412D	SR	10/13/2016	11:31	27.33	949.64	922.31	
MW-413D	SR	10/13/2016	10:10	33.77	970.13	936.36	
MW-414D	SR	10/13/2016	9:47	35.47	971.91	936.44	
MW-416D	SR	10/13/2016	9:56	29.46	965.84	936.38	
MW-417D	SR	10/13/2016	10:06	28.57	964.96	936.39	
MW-418D	SR	10/13/2016	9:52	28.67	965.06	936.39	
MW-419D	SR	10/13/2016	13:56	31.06	967.40	936.34	
MW-419M	MB	10/13/2016	13:57	31.10	967.50	936.40	
MW-420D	SR	10/13/2016	13:53	28.90	965.26	936.36	
MW-420M	MB	10/13/2016	13:52	28.35	964.85	936.50	
MW-421D	SR	10/13/2016	14:02	22.13	958.50	936.37	
MW-422D	SR	10/13/2016	13:36	40.32	980.98	940.66	
MW-424D	SR	10/13/2016	13:41	39.21	979.74	940.53	
MW-432D	SR	10/13/2016	10:27	38.56	974.50	935.94	
MW-432M	MB	10/13/2016	10:29	21.94	974.90	952.96	
MW-433D	SR	10/13/2016	10:34	33.95	970.43	936.48	
MW-434D	SR	10/13/2016	10:38	28.89	965.33	936.44	
MW-435D	SR	10/13/2016	10:42	19.76	955.91	936.15	
MW-436D	SR	10/13/2016	10:46	26.12	962.37	936.25	
MW-437D	SR	10/13/2016	11:01	13.90	948.38	934.48	
MW-438D	SR	10/13/2016	12:13		972.59		Inaccessible
MW-439D	SR	10/13/2016	10:49		955.58		Inaccessible
MW-440D	SR	10/13/2016	10:54	3.46	936.70	933.24	
MW-441D	SR	10/13/2016	12:11	37.91	974.38	936.47	
MW-442D	SR	10/13/2016	12:27	39.26	975.68	936.42	
MW-443D	SR	10/13/2016	12:22	43.25	979.72	936.47	
MW-444D	SR	10/13/2016	11:35	8.00	934.18	926.18	
MW-447D	SR	10/13/2016	11:52	41.68	965.84	924.16	
MW-448D	SR	10/13/2016	11:41	11.91	935.38	923.47	
MW-449D	SR	10/13/2016	11:57	36.77	970.44	933.67	
MW-450D	SR	10/13/2016	11:08	18.27	910.51	892.24	
MW-451D	SR	10/13/2016	12:04	31.29	967.32	936.03	
MW-453D	SR	10/13/2016	11:47		923.25		Artesian

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
HA-1	S2	11/21/2016	10:15	12.02	982.24	970.22	
HA-2	S2	11/21/2016	10:09	9.88	982.70	972.82	
HA-3	S2	11/21/2016	10:01	11.15	982.61	971.46	
HA-4	S1	11/21/2016	10:21	5.65	981.14	975.49	
HA-5 IF-2	WT WT/S1	11/21/2016 11/21/2016	10:06 11:23	6.25 2.54	982.94 978.64	976.69 976.10	
IF-2	WT/S1	11/21/2016	11:25	2.74	978.61	975.87	
MW-130	S1	11/21/2016	14:11	6.27	986.02	979.75	
MW-131	S1	11/21/2016	14:02	6.78	985.72	978.94	
MW-132	WT/S1	11/21/2016	14:20	5.42	984.07	978.65	
MW-133	S1	11/21/2016	14:45	5.67	983.13	977.46	
MW-134	WT/S1	11/21/2016	14:30	4.24	979.78	975.54	
MW-135	WT/S1	11/21/2016	13:54	4.57	984.86	980.29	
MW-136	WT/S1	11/21/2016	14:42	4.69	985.67	980.98	
MW-137	S2	11/21/2016	10:28	3.81	982.24	978.43	
MW-138	S1	11/21/2016	10:25	9.86	982.24	972.38	
MW-501	S2	11/21/2016	14:23	7.40	988.73	981.33	
MW-502	S1/S2	11/21/2016	14:19	6.58	990.20	983.62	
MW-503	S1	11/21/2016	11:26	10.00	994.49	984.49	
MW-504R	S1	11/21/2016	12:19	3.95	984.42	980.47	
MW-505	S1/S2	11/21/2016	12:39	7.78	989.28	981.50	
MW-506	S1	11/21/2016	12:10	5.45	988.96	983.51	
MW-507	S1	11/21/2016	11:59	7.26	988.96	981.70	
MW-508	S2	11/21/2016	12:02	13.38	989.07	975.69	
MW-509	S2	11/21/2016	11:08	9.89	985.40	975.51	
MW-510R	S2	11/21/2016	10:34	8.56	981.51	972.95	
MW-511	S2	11/21/2016	11:11	7.91	980.06	972.15	
MW-512	WT	11/21/2016	10:17	4.80	979.15	974.35	
MW-513 MW-514	\$2 \$2	11/21/2016 11/21/2016	15:51 15:47	10.31 2.38	974.84 968.31	964.53 965.93	
MW-515	\$2 \$2	11/21/2016	15:31	6.96	970.44	963.48	
MW-516	S2 	11/21/2016	10:15	9.68	978.83	969.15	
MW-601	WT	11/21/2016	10:13	4.71	979.47	974.76	
MW-602	WT	11/21/2016	10:12	4.88	981.94	977.06	
MW-603	WT	11/21/2016	10:49	6.29	984.42	978.13	
MW-604	S1	11/21/2016	10:21	3.72	981.77	978.05	
MW-605	S2	11/21/2016	10:03	9.54	978.62	969.08	
MW-606	S1	11/21/2016	10:34	5.12	982.87	977.75	
MW-607	WT/S1	11/21/2016	15:08	5.43	979.87	974.44	
MW-700	S1	11/21/2016	12:08	7.94	988.77	980.83	
MW-701	S1	11/21/2016	12:06	7.71	988.92	981.21	
MW-702	S1	11/21/2016	12:03	2.40	989.24	986.84	
MW-703R	S1	11/21/2016	11:49	5.22	988.84	983.62	
MW-705	S1	11/21/2016	12:10	13.30	989.01	975.71	
MW-706	WT	11/21/2016	11:47	6.06	987.67	981.61	
MW-707	S1	11/21/2016	11:45	7.62	989.06	981.44	
MW-708	S2	11/21/2016	11:32	10.25	985.24	974.99	
MW-709	S1	11/21/2016	11:44	8.56	989.10	980.54	
MW-710	WT/S1	11/21/2016	13:57	5.00	985.15	980.15	
MW-711	S1 WT/81	11/21/2016	12:25	9.52	989.16	979.64	
MW-712 MW-715	WT/S1 S1	11/21/2016	10:47 10:34	3.65	982.31	978.66	
MW-716	\$1 \$2	11/21/2016 11/21/2016	10:34	8.44 11.57	982.30 982.31	973.86 970.74	
MW-717	S2 	11/21/2016	11:07	8.29	962.31	970.74	
MW-718	WT/S1	11/21/2016	11:20	4.65	980.27	971.53	
MW-719	S2	11/21/2016	11:17	7.66	979.01	973.02	
MW-720	S1	11/21/2016	16:11	7.09	979.29	972.20	
MW-721	S2	11/21/2016	11:06	9.88	984.81	974.93	
MW-722R	WT	11/21/2016	11:43	5.00	987.55	982.55	
IVIVV / ZZIV	V V I	11/21/2010	11.70	0.00	001.00	002.00	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
MW-723	WT	11/21/2016	0:00		984.75		Abandoned
MW-724 MW-725	WT/S1 S2	11/21/2016 11/21/2016	16:14 15:48	8.34	979.15 978.46	970.12	Dry
MW-726	WT/S1	11/21/2016	15:53	3.89	978.70	970.12	
MW-727	\$2	11/21/2016	15:51	7.67	977.84	970.17	
MW-728	WT/S1	11/21/2016	15:41	4.34	978.07	973.73	
MW-729	WT/S1	11/21/2016	11:10	4.85	977.20	972.35	
MW-730	S1	11/21/2016	0:00	4.91	982.08	977.17	
MW-731	S2	11/21/2016	11:12	7.24	977.19	969.95	
MW-732	S1	11/21/2016	10:07	5.32	978.89	973.57	
MW-733	S2	11/21/2016	16:17	9.03	978.98	969.95	
MW-734	WT/S1	11/21/2016	16:14	7.57	979.14	971.57	
MW-735	S2	11/21/2016	16:46	7.77	985.40	977.63	
MW-736 MW-737	\$2 \$2	11/21/2016 11/21/2016	14:00 11:24	8.61 8.76	979.45 978.96	970.84 970.20	
MW-738	WT	11/21/2016	11:55	4.75	987.75	983.00	
MW-739	WT	11/21/2016	12:17	6.69	989.05	982.36	
MW-740	S2	11/21/2016	13:49	5.11	973.82	968.71	
MW-741	S2	11/21/2016	13:50	9.79	976.19	966.40	
MW-742	S2	11/21/2016	15:13	10.70	980.10	969.40	
MW-743	S2	11/21/2016	15:36	7.56	976.89	969.33	
MW-744	WT	11/21/2016	11:49	6.52	987.36	980.84	
MW-745	S2	11/21/2016	10:58	9.20	982.49	973.29	
MW-746	S2	11/21/2016	14:10	11.23	987.64	976.41	
MW-747R	S1	11/21/2016	11:36	9.42	988.14	978.72	
MW-748	S1	11/21/2016	10:37	6.43	981.98	975.55	
MW-749	WT WT	11/21/2016	10:40	3.43	981.94	978.51	
MW-750 MW-753	WT	11/21/2016 11/21/2016	14:09 12:33	5.57 4.37	985.32 985.37	979.75 981.00	
MW-754	WT	11/21/2016	12:31	5.14	985.85	980.71	
MW-757	WT	11/21/2016	11:44	4.34	988.95	984.61	
MW-758	S2	11/21/2016	0:00	5.28	982.34	977.06	
MW-759	S2	11/21/2016	13:45	7.45	976.87	969.42	
MW-760	WT	11/21/2016	11:20	6.22	984.49	978.27	
MW-764	WT/S1	11/21/2016	11:12	5.05	982.78	977.73	
MW-765	WT	11/21/2016	11:51	5.20	988.96	983.76	
MW-766	WT	11/21/2016	0:00		987.15		Inaccessible
MW-767	WT	11/21/2016	12:03	7.16	988.92	981.76	10.000.000.000
MW-768	WT	11/21/2016	0:00	40.00	985.64	000.40	Inaccessible
MW-770 MW-771	S1/S2 WT	11/21/2016 11/21/2016	11:29 11:32	10.20 6.52	992.62 992.54	982.42 986.02	
MW-772R	WT	11/21/2016	11:52	7.62	332.34	300.02	
MW-773	S1	11/21/2016	14:15	5.75	989.24	983.49	
MW-774	WT	11/21/2016	14:13	3.78	989.06	985.28	
MW-775	WT	11/21/2016	13:40	6.71	976.91	970.20	
MW-776	WT/S1	11/21/2016	13:54	4.98	974.01	969.03	
MW-777	S1	11/21/2016	14:14	8.58	985.65	977.07	
MW-778	S2	11/21/2016	11:14	7.93	982.78	974.85	
MW-779	S2	11/21/2016	10:11	10.72	979.40	968.68	
MW-780R	WT/S1	11/21/2016	11:36	5.72	984.63	978.91	
MW-781 MW-782	WT WT/S1	11/21/2016 11/21/2016	10:47 11:08	5.22 5.16	982.06 980.19	976.84 975.03	
MW-784	WT/ST	11/21/2016	11:05	5.53	980.19	975.03	
MW-786	S2	11/21/2016	10:09	10.30	979.35	969.05	
MW-787	WT	11/21/2016	10:26	8.85	982.12	973.27	
MW-788	WT	11/21/2016	14:05	7.86	986.90	979.04	
MW-789	WT/S1	11/21/2016	14:16	4.70	982.43	977.73	
MW-790	WT	11/21/2016	11:55	4.94	988.92	983.98	
MW-792	S2	11/21/2016	11:58	12.51	989.02	976.51	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Туре			Level	Elevation	Elevation	
	,			(ft)	(ft)	(ft)	
MW-793	WT/S1	11/21/2016	10:31	8.77	982.03	973.26	
MW-794	WT/S1	11/21/2016	10:45	6.39	982.07	975.68	
MW-795	WT	11/21/2016	0:00		982.12		has product
MW-796	WT/S1	11/21/2016	15:07	6.26	980.25	973.99	
MW-797	S1	11/21/2016	0:00		985.68		Abandoned
MW-798	S2	11/21/2016	0:00		982.19		has product
MW-799	S2	11/21/2016	10:50	10.52	982.09	971.57	
MW-800	S2	11/21/2016	13:36	10.15	978.91	968.76	
MW-801	S1	11/21/2016	0:00	5 47	987.12	222.24	Inaccessible
MW-802	WT	11/21/2016	12:15	5.47	988.71	983.24	
MW-804R MW-805	S1 WT	11/21/2016 11/21/2016	12:13 12:38	12.72 5.88	988.77 985.92	976.05 980.04	
MW-806	WT	11/21/2016	12:36	9.27	982.15	972.88	
MW-807	S2	11/21/2016	10:38	12.08	982.08	970.00	
MW-808	S2	11/21/2016	10:43	11.10	982.20	971.10	
MW-809	S1/S2	11/21/2016	10:40	9.13	982.16	973.03	
MW-810	WT	11/21/2016	15:05	8.50	980.40	971.90	
MW-811	WT	11/21/2016	10:50	4.82	982.88	978.06	
MW-812	S2	11/21/2016	15:41	7.39	969.95	962.56	
MW-813	\$2	11/21/2016	15:35	8.22	975.43	967.21	
MW-814	WT/S1	11/21/2016	15:20	8.54	976.17	967.63	
MW-815	WT/S1	11/21/2016	16:58	8.32	979.30	970.98	
N001	WT	11/21/2016	0:00		985.43		Inaccessible
N002	WT	11/21/2016	0:00		985.20		Dry
N003	WT	11/21/2016	0:00		985.28		Dry
N1	WT	11/21/2016	12:36	5.60	989.43	983.83	
N10	WT	11/21/2016	0:00		982.92		Inaccessible
N11	WT	11/21/2016	9:36	2.80	981.63	978.83	
N12	WT	11/21/2016	9:51	9.30	984.82	975.52	
N13	WT	11/21/2016	9:40	4.45	982.21	977.76	
N15	WT	11/21/2016	9:44	4.67	982.47	977.80	D
N16	WT	11/21/2016	0:00		982.04		Dry
N17 N2	WT WT	11/21/2016 11/21/2016	0:00		982.23 989.37		Dry Inaccessible
N23	WT	11/21/2016	9:46	6.05	980.57	974.52	maccessible
N25	WT	11/21/2016	0:00	0.03	985.33	914.32	Dry
N26	WT	11/21/2016	0:00		983.29		Dry
N57	WT	11/21/2016	9:38	7.60	982.50	974.90	Biy
N62 (E2)	WT	11/21/2016	9:42	5.05	302.00	57 1.50	
N63	WT	11/21/2016	0:00	2.00	979.19		Dry
N64	WT	11/21/2016	13:51	7.30	978.34	971.04	,
N7	WT	11/21/2016	0:00		985.19		Inaccessible
N9	WT	11/21/2016	12:23	7.05	985.38	978.33	
PZ-1	WT	11/21/2016	10:19	4.11	978.64	974.53	
PZ-10	WT	11/21/2016	10:40	6.47	983.23	976.76	
PZ-11	WT	11/21/2016	0:00		983.34		Inaccessible
PZ-12	WT	11/21/2016	14:33	3.24	982.95	979.71	
PZ-13	WT	11/21/2016	14:30	3.58	983.61	980.03	
PZ-14	WT	11/21/2016	14:47	4.30	984.21	979.91	
PZ-15	WT	11/21/2016	14:07	5.60	985.51	979.91	
PZ-16R	WT	11/21/2016	14:05	5.09	985.16	980.07	
PZ-17	WT WT	11/21/2016	14:36	3.14	983.49	980.35 980.70	
PZ-18 PZ-19	WT	11/21/2016 11/21/2016	14:18 10:43	4.58 6.57	985.28 983.58	980.70	
PZ-19 PZ-2	WT	11/21/2016	0:00	0.57	978.12	911.01	Inaccessible
PZ-20	WT	11/21/2016	10:59	6.02	982.28	976.26	Haccessible
PZ-21	WT	11/21/2016	11:46	5.00	988.88	983.88	
PZ-22R	WT	11/21/2016	12:18	7.02	988.78	981.76	
PZ-23	WT	11/21/2016	12:27	8.96	989.04	980.08	
				00			

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
PZ-24	WT	11/21/2016	11:37	4.04	988.82	984.78	
PZ-25	WT	11/21/2016	11:39	4.28	988.71	984.43	
PZ-26	WT	11/21/2016	0:00		989.05		has product
PZ-28	WT	11/21/2016	11:42	4.39	989.02	984.63	
PZ-29R	WT	11/21/2016	12:36	8.28	988.22	979.94	
PZ-3	WT	11/21/2016	14:40		981.55		Dry
PZ-30	WT	11/21/2016	14:15	4.86	985.25	980.39	
PZ-31	WT	11/21/2016	12:21	6.70	988.98	982.28	
PZ-4	WT	11/21/2016	10:23	4.42	981.32	976.90	
PZ-5	WT	11/21/2016	10:01	5.83	979.59	973.76	
PZ-6	WT	11/21/2016	10:08	6.14	981.83	975.69	
PZ-7	WT	11/21/2016	10:05	4.73	982.66	977.93	
PZ-8	WT	11/21/2016	10:42	6.81	983.11	976.30	
PZ-9	WT	11/21/2016	10:18	5.14	982.63	977.49	
VAW-115R	WT/S1	11/21/2016	12:45	5.99	985.24	979.25	
VBW-111	WT/S1	11/21/2016	15:10	5.54	984.26	978.72	
VBW-112	S1	11/21/2016	14:25	9.02	985.44	976.42	
VBW-113	WT	11/21/2016	13:50	5.43	985.87	980.44	
VCW-110	WT/S1	11/21/2016	14:14	5.07	985.84	980.77	
VDW-108	S2	11/21/2016	10:46	12.65	983.76	971.11	
VEW-105	WT	11/21/2016	0:00		988.08		Inaccessible
VEW-106	WT	11/21/2016	11:53	5.27	987.79	982.52	
VEW-114R	WT	11/21/2016	11:39	5.37	988.86	983.49	
VFW-104	WT/S2	11/21/2016	15:03	5.20	978.74	973.54	
VPW-101	S1	11/21/2016	14:25	7.45	986.81	979.36	
VPW-102	S2	11/21/2016	15:44	4.50	966.75	962.25	
VPW-103	WT/S1	11/21/2016	11:03	6.73	982.05	975.32	

Monitoring Well ID	Well Type	Date	Time	Water Level	Top of Riser Elevation	Elevation	Remarks
007,100	0.0	44/00/0040	0.00	(ft)	(ft)	(ft)	
CSX-18D	SR	11/22/2016	8:38	29.89	964.96	935.07	
MW-101D	SR	11/22/2016	11:33	45.69	988.15	942.46	
MW-204D	SR	11/22/2016	11:23	35.02	994.26	959.24	
MW-301D	SR	11/22/2016	8:54	40.00	970.44	930.44	
MW-401D	SR	11/22/2016	14:09	39.62	974.57	934.95	
MW-402D	SR	11/22/2016	13:49	28.73	966.36	937.63	
MW-403D	SR	11/22/2016	13:00	35.28	977.36	942.08	
MW-404D	SR	11/22/2016	12:11	44.91	988.83	943.92	
MW-405D	SR	11/22/2016	12:22	40.50	982.45	941.95	
MW-407D	SR	11/22/2016	15:05	22.15	956.24	934.09	
MW-408D	SR	11/22/2016	15:07	22.99	957.07	934.08	
MW-409D	SR	11/22/2016	15:36	13.25	942.49	929.24	
MW-410D	SR	11/22/2016	15:14	16.71	947.63	930.92	
MW-411D	SR	11/22/2016	15:26	28.36	943.43	915.07	
MW-412D	SR	11/22/2016	15:21	28.28	949.64	921.36	
MW-413D	SR	11/22/2016	8:49	35.40	970.13	934.73	
MW-414D	SR	11/22/2016	8:52	37.10	971.91	934.81	
MW-416D	SR	11/22/2016	8:34	31.10	965.84	934.74	
MW-417D	SR	11/22/2016	8:43	30.21	964.96	934.75	
MW-418D	SR	11/22/2016	8:28	30.31	965.06	934.75	
MW-419D	SR	11/22/2016	14:32	32.75	967.40	934.65	
MW-419M	MB	11/22/2016	14:34	32.73	967.50	934.77	
MW-420D	SR	11/22/2016	14:30	30.53	965.26	934.73	
MW-420M	MB	11/22/2016	14:28	29.94	964.85	934.91	
MW-421D	SR	11/22/2016	14:36	23.72	958.50	934.78	
MW-422D	SR	11/22/2016	12:36	41.66	980.98	939.32	
MW-424D	SR	11/22/2016	12:45	40.56	979.74	939.18	
MW-432D	SR	11/22/2016	9:10	40.29	974.50	934.21	
MW-432M	MB	11/22/2016	9:11	22.84	974.90	952.06	
MW-433D	SR	11/22/2016	9:14	35.67	970.43	934.76	
MW-434D	SR	11/22/2016	9:18	30.61	965.33	934.72	
MW-435D	SR	11/22/2016	9:23	21.54	955.91	934.37	
MW-436D	SR	11/22/2016	9:26	27.95	962.37	934.42	
MW-437D	SR	11/22/2016	9:45	15.54	948.38	932.84	
MW-438D	SR	11/22/2016	10:37	37.88	972.59	934.71	
MW-439D	SR	11/22/2016	9:34	21.85	955.58	933.73	
MW-440D	SR	11/22/2016	9:40	4.91	936.70	931.79	
MW-441D	SR	11/22/2016	10:31	39.61	974.38	934.77	
MW-442D	SR	11/22/2016	11:15	40.94	975.68	934.74	
MW-443D	SR	11/22/2016	11:08	44.95	979.72	934.77	
MW-444D	SR	11/22/2016	9:58	9.19	934.18	924.99	
MW-447D	SR	11/22/2016	10:19	42.58	965.84	923.26	
MW-448D	SR	11/22/2016	10:03	13.88	935.38	921.50	
MW-449D	SR	11/22/2016	10:23	38.32	970.44	932.12	
MW-450D	SR	11/22/2016	9:54	18.45	910.51	892.06	
MW-451D	SR	11/22/2016	10:26	32.99	967.32	934.33	
MW-453D	SR	11/22/2016	10:12		923.25		Artesian

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
007.00	TOD	44/00/0040	44.05	(ft)	(ft)	(ft)	
CSX-22	TOR	11/22/2016	14:25	9.76	967.35	957.59	
MW-101S	TOR	11/22/2016	11:31	8.79	988.04	979.25	
MW-204S	TOR	11/22/2016	12:52	16.22	993.94	977.72	
MW-301S	TOR	11/22/2016	14:01	7.07	971.03	963.96	
MW-401S	TOR	11/22/2016	14:07	16.36	974.73	958.37	
MW-402S	TOR	11/22/2016	13:55	11.11	966.62	955.51	
MW-403S	TOR	11/22/2016	12:56	10.52	976.61	966.09	
MW-404S	TOR	11/22/2016	12:13	10.26	989.50	979.24	
MW-405S	TOR	11/22/2016	12:20	8.70	982.47	973.77	
MW-407S	TOR	11/22/2016	15:03	9.90	952.99	943.09	
MW-412S	TOR	11/22/2016	15:23	15.43	949.79	934.36	
MW-415S	TOR	11/22/2016	13:32	11.21	976.78	965.57	
MW-422S	TOR	11/22/2016	12:34	13.20	981.27	968.07	
MW-423S	TOR	11/22/2016	12:42	32.61	978.96	946.35	
MW-424S	TOR	11/22/2016	12:50	24.39	980.06	955.67	
MW-425S	TOR	11/22/2016	13:27	10.95	976.09	965.14	
MW-426S	TOR	11/22/2016	13:42	5.10	967.24	962.14	
MW-427S	TOR	11/22/2016	0:00		974.54		Inaccessible
MW-428S	TOR	11/22/2016	11:53	13.48	985.43	971.95	
MW-429S	TOR	11/22/2016	12:03	10.19	985.08	974.89	
MW-430S	TOR	11/22/2016	12:32	11.98	984.76	972.78	
MW-431S	TOR	11/22/2016	11:45	9.65	982.46	972.81	
MW-445S	TOR	11/22/2016	13:19	21.87	976.07	954.20	
MW-446SR	TOR	11/22/2016	13:06	10.15	972.04	961.89	
MW-452S	TOR	11/22/2016	14:17	14.10	989.13	975.03	
MW-454S	TOR	11/22/2016	14:04	8.34	969.38	961.04	
MW-455S	TOR	11/22/2016	14:11	9.75	976.65	966.90	

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	12/20/2016	10:48	28.03	964.96	936.93	
MW-101D	SR	12/20/2016	14:47	44.55	988.15	943.60	
MW-204D	SR	12/20/2016	14:55	33.84	994.26	960.42	
MW-301D	SR	12/20/2016	11:05	38.20	970.44	932.24	
MW-401D	SR	12/20/2016	15:42	37.70	974.57	936.87	
MW-402D	SR	12/20/2016	14:05	27.10	966.36	939.26	
MW-403D	SR	12/20/2016	14:26	35.28	977.36	942.08	
MW-404D	SR	12/20/2016	14:37	43.83	988.83	945.00	
MW-405D	SR	12/20/2016	15:14	39.38	982.45	943.07	
MW-407D	SR	12/20/2016	11:38	20.03	956.24	936.21	
MW-408D	SR	12/20/2016	12:02	20.85	957.07	936.22	
MW-409D	SR	12/20/2016	12:50	11.95	942.49	930.54	
MW-410D	SR	12/20/2016	12:15	14.88	947.63	932.75	
MW-411D	SR	12/20/2016	12:30	28.10	943.43	915.33	
MW-412D	SR	12/20/2016	12:23	27.29	949.64	922.35	
MW-413D	SR	12/20/2016	10:57	33.56	970.13	936.57	
MW-414D	SR	12/20/2016	11:01	35.27	971.91	936.64	
MW-416D	SR	12/20/2016	10:43	29.29	965.84	936.55	
MW-417D	SR	12/20/2016	10:54	28.37	964.96	936.59	
MW-418D	SR	12/20/2016	10:39	28.47	965.06	936.59	
MW-419D	SR	12/20/2016	13:41	30.87	967.40	936.53	
MW-419M	MB	12/20/2016	13:42	30.81	967.50	936.69	
MW-420D	SR	12/20/2016	13:49	28.51	965.26	936.75	
MW-420M	MB	12/20/2016	13:50	28.29	964.85	936.56	
MW-421D	SR	12/20/2016	13:54	21.78	958.50	936.72	
MW-422D	SR	12/20/2016	15:21	40.32	980.98	940.66	
MW-424D	SR	12/20/2016	15:29	39.18	979.74	940.56	
MW-432D	SR	12/20/2016	15:55	38.19	974.50	936.31	
MW-432M	MB	12/20/2016	15:58	22.31	974.90	952.59	
MW-433D	SR	12/20/2016	13:45	33.67	970.43	936.76	
MW-434D	SR	12/20/2016	13:58	28.53	965.33	936.80	
MW-435D	SR	12/20/2016	14:15	19.35	955.91	936.56	
MW-436D	SR	12/20/2016	14:32	25.69	962.37	936.68	
MW-437D	SR	12/20/2016	14:40	13.45	948.38	934.93	
MW-438D	SR	12/20/2016	15:45	35.75	972.59	936.84	
MW-439D	SR	12/20/2016	15:00	19.37	955.58	936.21	
MW-440D	SR	12/20/2016	14:46	3.20	936.70	933.50	
MW-441D	SR	12/20/2016	16:05	37.50	974.38	936.88	
MW-442D	SR	12/20/2016	16:40	38.88	975.68	936.80	
MW-443D	SR	12/20/2016	10:32	43.02	979.72	936.70	
MW-444D	SR	12/20/2016	15:33	7.62	934.18	926.56	
MW-447D	SR	12/20/2016	16:14	41.76	965.84	924.08	
MW-448D	SR	12/20/2016	15:28	12.02	935.38	923.36	
MW-449D	SR	12/20/2016	16:28	36.41	970.44	934.03	
MW-450D	SR	12/20/2016	17:05	17.95	910.51	892.56	
MW-451D	SR	12/20/2016	15:17	30.88	967.32	936.44	
MW-453D	SR	12/20/2016	16:18		923.25		Artesian

Monitoring Well ID	Well Type	Date	Time	Water Level	Top of Riser Elevation	Groundwater Elevation	Remarks
Well ID	Type			(ft)	(ft)	(ft)	
CSX-18D	SR	1/30/2017	11:22	24.41	964.96	940.55	
MW-101D	SR	1/30/2017	14:55	41.10	988.15	947.05	
MW-204D	SR	1/30/2017	15:00	31.03	994.26	963.23	
MW-301D	SR	1/30/2017	11:41	34.54	970.44	935.90	
MW-401D	SR	1/30/2017	16:25	34.20	974.57	940.37	
MW-402D	SR	1/30/2017	15:30	23.60	966.36	942.76	
MW-403D	SR	1/30/2017	15:20	31.73	977.36	945.63	
MW-404D	SR	1/30/2017	15:08	40.40	988.83	948.43	
MW-405D	SR	1/30/2017	14:35	35.91	982.45	946.54	
MW-407D	SR	1/30/2017	12:15	16.50	956.24	939.74	
MW-408D	SR	1/30/2017	12:32	17.33	957.07	939.74	
MW-409D	SR	1/30/2017	0:00		942.49		not measured
MW-410D	SR	1/30/2017	13:15	11.72	947.63	935.91	
MW-411D	SR	1/30/2017	13:00	26.33	943.43	917.10	
MW-412D	SR	1/30/2017	12:49	25.03	949.64	924.61	
MW-413D	SR	1/30/2017	11:30	29.96	970.13	940.17	
MW-414D	SR	1/30/2017	11:37	31.66	971.91	940.25	
MW-416D	SR	1/30/2017	11:10	25.67	965.84	940.17	
MW-417D	SR	1/30/2017	11:16	24.74	964.96	940.22	
MW-418D	SR	1/30/2017	11:01	24.83	965.06	940.23	
MW-419D	SR	1/30/2017	16:05	27.17	967.40	940.23	
MW-419M	MB	1/30/2017	16:02	27.23	967.50	940.27	
MW-420D	SR	1/30/2017	15:55	25.01	965.26	940.25	
MW-420M	MB	1/30/2017	15:53	24.45	964.85	940.40	
MW-421D	SR	1/30/2017	16:13	18.24	958.50	940.26	
MW-422D	SR	1/30/2017	14:26	36.77	980.98	944.21	
MW-424D	SR	1/30/2017	14:42	35.67	979.74	944.07	
MW-432D	SR	1/30/2017	14:21	34.74	974.50	939.76	
MW-432M	MB	1/30/2017	14:19	19.93	974.90	954.97	
MW-433D	SR	1/30/2017	16:20	30.11	970.43	940.32	
MW-434D	SR	1/30/2017	16:40	25.07	965.33	940.26	
MW-435D	SR	1/30/2017	16:36	15.87	955.91	940.04	
MW-436D	SR	1/30/2017	16:12	22.19	962.37	940.18	
MW-437D	SR	1/30/2017	15:58	10.18	948.38	938.20	
MW-438D	SR	1/30/2017	14:33	32.35	972.59	940.24	
MW-439D	SR	1/30/2017	15:06	15.80	955.58	939.78	
MW-440D	SR	1/30/2017	16:05	0.06	936.70	936.64	
MW-441D	SR	1/30/2017	14:25	14.01	974.38	960.37	
MW-442D	SR	1/30/2017	16:41	35.43	975.68	940.25	
MW-443D	SR	1/30/2017	10:50	39.39	979.72	940.33	
MW-444D	SR	1/30/2017	15:43	5.98	934.18	928.20	
MW-447D	SR	1/30/2017	14:49	39.96	965.84	925.88	
MW-448D	SR	1/30/2017	15:20	9.82	935.38	925.56	
MW-449D	SR	1/30/2017	14:45	33.41	970.44	937.03	
MW-450D	SR	1/30/2017	17:02	17.02	910.51	893.49	
MW-451D	SR	1/30/2017	14:39	27.51	967.32	939.81	
MW-453D	SR	1/30/2017	14:59		923.25		Artesian

ATTACHMENT A MONTHLY GROUNDWATER ELEVATION DATA TOP OF ROCK MONITORING WELLS JANUARY 2017 MAHLE BEHR DAYTON LLC - VANDALIA, OHIO

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
CSX-22	TOR	1/31/2017	14:44	6.91	967.35	960.44	
MW-101S	TOR	1/31/2017	12:05	5.94	988.04	982.10	
MW-204S	TOR	1/31/2017	12:55	12.82	993.94	981.12	
MW-301S	TOR	1/31/2017	10:40	5.00	971.03	966.03	
MW-401S	TOR	1/31/2017	10:33	13.38	974.73	961.35	
MW-402S	TOR	1/31/2017	10:00	9.28	966.62	957.34	
MW-403S	TOR	1/31/2017	11:17	6.57	976.61	970.04	
MW-404S	TOR	1/31/2017	11:41	6.94	989.50	982.56	
MW-405S	TOR	1/31/2017	12:00	6.31	982.47	976.16	
MW-407S	TOR	1/31/2017	14:57	3.35	952.99	949.64	
MW-412S	TOR	1/31/2017	15:17	11.71	949.79	938.08	
MW-415S	TOR	1/31/2017	11:04	8.45	976.78	968.33	
MW-422S	TOR	1/31/2017	9:45	10.47	981.27	970.80	
MW-423S	TOR	1/31/2017	9:50	28.60	978.96	950.36	
MW-424S	TOR	1/31/2017	9:35	22.11	980.06	957.95	
MW-425S	TOR	1/31/2017	10:59	7.90	976.09	968.19	
MW-426S	TOR	1/31/2017	11:29	2.57	967.24	964.67	
MW-427S	TOR	1/31/2017	0:00		974.54		Inaccessible
MW-428S	TOR	1/31/2017	12:40	11.32	985.43	974.11	
MW-429S	TOR	1/31/2017	12:43	7.55	985.08	977.53	
MW-430S	TOR	1/31/2017	13:26	10.13	984.76	974.63	
MW-431S	TOR	1/31/2017	12:10	7.31	982.46	975.15	
MW-445S	TOR	1/31/2017	10:55	18.87	976.07	957.20	
MW-446SR	TOR	1/31/2017	11:21	7.71	972.04	964.33	
MW-452S	TOR	1/31/2017	12:51	11.63	989.13	977.50	
MW-454S	TOR	1/31/2017	10:23	5.45	969.38	963.93	·
MW-455S	TOR	1/31/2017	10:29	7.19	976.65	969.46	

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	2/24/2017	9:50	25.98	964.96	938.98	
MW-101D	SR	2/24/2017	13:58	42.56	988.15	945.59	
MW-204D	SR	2/24/2017	14:07	32.19	994.26	962.07	
MW-301D	SR	2/24/2017	10:07	36.12	970.44	934.32	
MW-401D	SR	2/24/2017	14:20	35.69	974.57	938.88	
MW-402D	SR	2/24/2017	12:55	25.09	966.36	941.27	
MW-403D	SR	2/24/2017	12:41	32.72	977.36	944.64	
MW-404D	SR	2/24/2017	12:33	46.87	988.83	941.96	
MW-405D	SR	2/24/2017	13:28	37.38	982.45	945.07	
MW-407D	SR	2/24/2017	10:41	18.20	956.24	938.04	
MW-408D	SR	2/24/2017	10:51	19.03	957.07	938.04	
MW-409D	SR	2/24/2017	10:28	10.07	942.49	932.42	
MW-410D	SR	2/24/2017	11:29	13.20	947.63	934.43	
MW-411D	SR	2/24/2017	11:17	26.78	943.43	916.65	
MW-412D	SR	2/24/2017	11:11	25.93	949.64	923.71	
MW-413D	SR	2/24/2017	9:55	31.53	970.13	938.60	
MW-414D	SR	2/24/2017	10:03	33.25	971.91	938.66	
MW-416D	SR	2/24/2017	9:41	27.26	965.84	938.58	
MW-417D	SR	2/24/2017	9:46	26.33	964.96	938.63	
MW-418D	SR	2/24/2017	9:35	26.42	965.06	938.64	
MW-419D	SR	2/24/2017	14:40	28.76	967.40	938.64	
MW-419M	MB	2/24/2017	14:35	28.77	967.50	938.73	
MW-420D	SR	2/24/2017	14:30	26.57	965.26	938.69	
MW-420M	MB	2/24/2017	14:27	25.96	964.85	938.89	
MW-421D	SR	2/24/2017	14:49	19.79	958.50	938.71	
MW-422D	SR	2/24/2017	13:21	38.25	980.98	942.73	
MW-424D	SR	2/24/2017	13:15	37.14	979.74	942.60	
MW-432D	SR	2/24/2017	12:32	36.35	974.50	938.15	
MW-432M	MB	2/24/2017	12:35	20.34	974.90	954.56	
MW-433D	SR	2/24/2017	14:14	31.67	970.43	938.76	
MW-434D	SR	2/24/2017	14:33	26.62	965.33	938.71	
MW-435D	SR	2/24/2017	14:26	17.49	955.91	938.42	
MW-436D	SR	2/24/2017	14:21	23.85	962.37	938.52	
MW-437D	SR	2/24/2017	14:03	11.71	948.38	936.67	
MW-438D	SR	2/24/2017	12:49	33.93	972.59	938.66	
MW-439D	SR	2/24/2017	13:32	17.70	955.58	937.88	
MW-440D	SR	2/24/2017	13:38	1.60	936.70	935.10	
MW-441D	SR	2/24/2017	12:58	14.35	974.38	960.03	
MW-442D	SR	2/24/2017	15:13	36.95	975.68	938.73	
MW-443D	SR	2/24/2017	9:30	41.02	979.72	938.70	
MW-444D	SR	2/24/2017	13:43	6.33	934.18	927.85	
MW-447D	SR	2/24/2017	13:20	40.62	965.84	925.22	
MW-448D	SR	2/24/2017	13:51	10.60	935.38	924.78	
MW-449D	SR	2/24/2017	13:11	34.80	970.44	935.64	
MW-450D	SR	2/24/2017	15:05	17.68	910.51	892.83	
MW-451D	SR	2/24/2017	13:05	29.07	967.32	938.25	
MW-453D	SR	2/24/2017	13:25	_5.5.	923.25	555.25	Artesian

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
110.4	00	0/04/0047	40.00	(ft)	(ft)	(ft)	
HA-1	S2	3/24/2017	10:08	9.00	982.24	973.24	
HA-2 HA-3	\$2 \$2	3/24/2017 3/24/2017	9:57 10:06	7.24	982.70	975.46	
HA-4	S2 	3/24/2017	10:06	8.95 2.62	982.61 981.14	973.66 978.52	
HA-5	WT	3/24/2017	9:54	2.02	982.94	970.32	Dry
IF-2	WT/S1	3/24/2017	11:03	1.80	978.64	976.84	Ыу
IF-3	WT/S1	3/24/2017	11:05	1.50	978.61	977.11	
MW-130	S1	3/24/2017	12:51	2.86	986.02	983.16	
MW-131	S1	3/24/2017	13:09	3.68	985.72	982.04	
MW-132	WT/S1	3/24/2017	13:04	3.31	984.07	980.76	
MW-133	S1	3/24/2017	13:00	5.06	983.13	978.07	
MW-134	WT/S1	3/24/2017	12:57	1.86	979.78	977.92	
MW-135	WT/S1	3/24/2017	14:28	3.31	984.86	981.55	
MW-136	WT/S1	3/24/2017	0:00	4.36	985.67	981.31	Inaccessible
MW-137	S2	3/24/2017	10:24	7.19	982.24	975.05	
MW-138	S1	3/24/2017	10:26	1.29	982.24	980.95	
MW-501	S2	3/24/2017	13:18	4.02	988.73	984.71	
MW-502	S1/S2	3/24/2017	13:35	3.70	990.20	986.50	
MW-503	S1	3/24/2017	11:10	5.70	994.49	988.79	
MW-504R	S1	3/24/2017	14:38	2.47	984.42	981.95	
MW-505	S1/S2	3/24/2017	13:28	4.80	989.28	984.48	
MW-506	S1	3/24/2017	13:16	3.51	988.96	985.45	
MW-507	S1	3/24/2017	13:06	4.64	988.96	984.32	
MW-508	S2	3/24/2017	12:31	10.32	989.07	978.75	
MW-509	S2	3/24/2017	10:47	7.33	985.40	978.07	
MW-510R	S2	3/24/2017	10:14	5.58	981.51	975.93	
MW-511 MW-512	S2 WT	3/24/2017 3/24/2017	10:43 11:34	4.89 4.34	980.06 979.15	975.17 974.81	
MW-513	S2	3/24/2017	15:00	11.50	974.84	963.34	
MW-514	\$2 \$2	3/24/2017	14:59	11.50	968.31	903.34	Artesian
MW-515	S2	3/24/2017	14:48	4.15	970.44	966.29	Aitesiaii
MW-516	S2	3/24/2017	11:34	6.75	978.83	972.08	
MW-601	WT	3/24/2017	11:28	5.29	979.47	974.18	
MW-602	WT	3/24/2017	10:00	3.43	981.94	978.51	
MW-603	WT	3/24/2017	10:35	5.80	984.42	978.62	
MW-604	S1	3/24/2017	10:20	3.01	981.77	978.76	
MW-605	S2	3/24/2017	11:20	6.48	978.62	972.14	
MW-606	S1	3/24/2017	10:22	4.31	982.87	978.56	
MW-607	WT/S1	3/24/2017	11:15	4.52	979.87	975.35	
MW-700	S1	3/24/2017	13:13	5.17	988.77	983.60	
MW-701	S1	3/24/2017	13:21	4.80	988.92	984.12	
MW-702	<u>S1</u>	3/24/2017	12:40	2.71	989.24	986.53	
MW-703R	S1	3/24/2017	12:48	2.24	988.84	986.60	
MW-705	S1	3/24/2017	12:32	10.59	989.01	978.42	
MW-706	WT	3/24/2017	12:28	6.17	987.67	981.50	
MW-707 MW-708	S1 S2	3/24/2017 3/24/2017	13:03 12:32	4.35 7.57	989.06 985.24	984.71 977.67	
MW-709	S2 	3/24/2017	12:32	6.94	985.24	982.16	
MW-710	WT/S1	3/24/2017	14:31	3.67	985.15	981.48	
MW-711	S1	3/24/2017	12:42	7.52	989.16	981.64	
MW-712	WT/S1	3/24/2017	10:41	2.66	982.31	979.65	
MW-715	S1	3/24/2017	10:00	6.39	982.30	975.91	
MW-716	S2	3/24/2017	9:58	7.56	982.31	974.75	
MW-717	S2	3/24/2017	10:49	5.11	979.82	974.71	
MW-718	WT/S1	3/24/2017	11:01	3.90	980.27	976.37	
MW-719	S2	3/24/2017	10:59	5.63	979.01	973.38	
MW-720	S1	3/24/2017	15:02	6.69	979.29	972.60	
MW-721	S2	3/24/2017	10:45	7.24	984.81	977.57	
MW-722R	WT	3/24/2017	11:22	1.82	987.55	985.73	

Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
		- / /		(ft)	(ft)	(ft)	
MW-723	WT	3/24/2017	0:00		984.75		Abandoned
MW-724	WT/S1	3/24/2017	15:00	5.00	979.15	070.00	Dry
MW-725	S2	3/24/2017	14:55	5.38	978.46	973.08	
MW-726	WT/S1 S2	3/24/2017	14:57	3.49	978.70 977.84	975.21 971.99	
MW-727	WT/S1	3/24/2017	14:51 14:53	5.85 2.42		971.99	
MW-728 MW-729	WT/S1	3/24/2017 3/24/2017	10:54	3.26	978.07 977.20	973.94	
MW-730	S1	3/24/2017	13:49	2.31	982.08	979.77	
MW-731	\$2	3/24/2017	10:52	4.05	977.19	973.14	
MW-731	S1	3/24/2017	11:24	3.27	978.89	975.62	
MW-732	\$2	3/24/2017	14:59	5.99	978.98	973.02	
MW-734	WT/S1	3/24/2017	14:57	6.84	979.14	972.30	
MW-735	\$2	3/24/2017	12:28	5.67	985.40	979.73	
MW-736	S2	3/24/2017	13:58	5.32	979.45	974.13	
MW-737	S2	3/24/2017	11:07	5.76	978.96	973.20	
MW-738	WT	3/24/2017	11:29	2.03	987.75	985.72	
MW-739	WT	3/24/2017	12:34	2.97	989.05	986.08	
MW-740	S2	3/24/2017	14:07	1.65	973.82	972.17	
MW-741	S2	3/24/2017	14:18	7.72	976.19	968.47	
MW-742	S2	3/24/2017	11:23	7.84	980.10	972.26	
MW-743	S2	3/24/2017	14:48	4.92	976.89	971.97	
MW-744	WT	3/24/2017	12:29	5.95	987.36	981.41	
MW-745	S2	3/24/2017	10:34	6.03	982.49	976.46	
MW-746	S2	3/24/2017	12:25	8.23	987.64	979.41	
MW-747R	S1	3/24/2017	11:20	6.21	988.14	981.93	
MW-748	S1	3/24/2017	10:17	3.70	981.98	978.28	
MW-749	WT	3/24/2017	10:18	1.30	981.94	980.64	
MW-750	WT	3/24/2017	13:08	2.55	985.32	982.77	
MW-753	WT	3/24/2017	13:17	2.17	985.37	983.20	
MW-754	WT	3/24/2017	13:25	2.56	985.85	983.29	
MW-757	WT	3/24/2017	12:38	1.70	988.95	987.25	
MW-758	S2	3/24/2017	13:52	2.00	982.34	980.34	
MW-759	S2	3/24/2017	14:20	0.45	976.87	976.42	
MW-760	WT	3/24/2017	10:53	3.98	984.49	980.51	
MW-764	WT/S1	3/24/2017	10:56	3.63	982.78	979.15	
MW-765	WT	3/24/2017	13:01	2.75	988.96	986.21	
MW-766	WT	3/24/2017	0:00		987.15		Inaccessible
MW-767	WT	3/24/2017	13:40	5.43	988.92	983.49	
MW-768	WT	3/24/2017	0:00		985.64	227.22	Abandoned
MW-770	S1/S2	3/24/2017	11:18	6.73	992.62	985.89	
MW-771	WT	3/24/2017	11:16	2.83	992.54	989.71	
MW-772R	WT	3/24/2017	12:54	4.30	000.04	000.05	
MW-773	S1 WT	3/24/2017	13:38	2.59	989.24	986.65	
MW-774	WT	3/24/2017	13:39	1.98	989.06	987.08 972.26	
MW-775 MW-776	WT/S1	3/24/2017 3/24/2017	14:10 14:03	4.65 1.18	976.91 974.01	972.26	
MW-777	S1	3/24/2017	12:52	5.40	985.65	980.25	
MW-778	\$2	3/24/2017	10:58	5.25	982.78	977.53	
MW-779	\$2 \$2	3/24/2017	11:32	7.32	979.40	972.08	
MW-780R	WT/S1	3/24/2017	12:34	3.46	984.63	981.17	
MW-781	WT	3/24/2017	10:21	4.48	982.06	977.58	
MW-782	WT/S1	3/24/2017	10:42	3.57	980.19	976.62	
MW-784	WT	3/24/2017	10:47	1.99	980.09	978.10	
MW-786	S2	3/24/2017	11:30	7.49	979.35	971.86	
MW-787	WT	3/24/2017	9:56	6.60	982.12	975.52	
MW-788	WT	3/24/2017	11:26	5.07	986.90	981.83	
MW-789	WT/S1	3/24/2017	12:54	2.35	982.43	980.08	
MW-790	WT	3/24/2017	12:54	2.24	988.92	986.68	
MW-792	S2	3/24/2017	12:52	9.65	989.02	979.37	
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Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Type			Level	Elevation	Elevation	
	=			(ft)	(ft)	(ft)	
MW-793	WT/S1	3/24/2017	10:17	7.60	982.03	974.43	
MW-794	WT/S1	3/24/2017	10:19	5.50	982.07	976.57	Hara Dirachical
MW-795	WT	3/24/2017	0:00	4.44	982.12	070.44	Has Product
MW-796	WT/S1	3/24/2017	12:19 0:00	4.14	980.25	976.11	Abandanad
MW-797 MW-798	S1 S2	3/24/2017	0:00		985.68 982.19		Abandoned
MW-799	\$2 \$2	3/24/2017 3/24/2017	10:23	7.46	982.19	974.63	Has Product
MW-800	\$2 \$2	3/24/2017	14:15	6.45	978.91	974.03	
MW-801	S1	3/24/2017	0:00	0.45	987.12	312.40	Inaccessible
MW-802	WT	3/24/2017	13:14	2.54	988.71	986.17	maccessible
MW-804R	S1	3/24/2017	13:12	10.12	988.77	978.65	
MW-805	WT	3/24/2017	13:30	2.96	985.92	982.96	
MW-806	WT	3/24/2017	10:02	7.96	982.15	974.19	
MW-807	S2	3/24/2017	10:04	9.94	982.08	972.14	
MW-808	S2	3/24/2017	10:25	8.18	982.20	974.02	
MW-809	S1/S2	3/24/2017	10:11	7.47	982.16	974.69	
MW-810	WT	3/24/2017	11:26	8.06	980.40	972.34	
MW-811	WT	3/24/2017	10:31	3.10	982.88	979.78	
MW-812	S2	3/24/2017	14:52	4.51	969.95	965.44	
MW-813	S2	3/24/2017	14:52	5.31	975.43	970.12	
MW-814	WT/S1	3/24/2017	11:30	5.25	976.17	970.92	
MW-815	WT/S1	3/24/2017	10:09	7.41	979.30	971.89	
N001	WT	3/24/2017	0:00		985.43		Inaccessible
N002	WT	3/24/2017	0:00	2.25	985.20	201.10	not measured
N003	WT	3/24/2017	13:30	3.85	985.28	981.43	
N1	WT	3/24/2017	13:23	5.60	989.43	983.83	1
N10 N11	WT WT	3/24/2017 3/24/2017	0:00 10:39	2.54	982.92 981.63	979.09	Inaccessible
N12	WT	3/24/2017	10:39	9.20	984.82	979.69	
N13	WT	3/24/2017	10:35	3.82	982.21	978.39	
N15	WT	3/24/2017	10:31	4.05	982.47	978.42	
N16	WT	3/24/2017	11:36	3.00	982.04	979.04	
N17	WT	3/24/2017	11:37	3.70	982.23	978.53	
N2	WT	3/24/2017	0:00	00	989.37	0.000	Inaccessible
N23	WT	3/24/2017	10:29	6.27	980.57	974.30	
N25	WT	3/24/2017	13:34	4.30	985.33	981.03	
N26	WT	3/24/2017	13:36	4.60	983.29	978.69	
N57	WT	3/24/2017	10:37	7.60	982.50	974.90	
N62 (E2)	WT	3/24/2017	10:33	4.42			
N63	WT	3/24/2017	14:15	7.40	979.19	971.79	
N64	WT	3/24/2017	14:13	7.30	978.34	971.04	
N7	WT	3/24/2017	0:00		985.19		Inaccessible
N9	WT	3/24/2017	13:46	7.00	985.38	978.38	
PZ-1	WT	3/24/2017	10:04	3.31	978.64	975.33	
PZ-10	WT WT	3/24/2017	10:30 0:00	6.39	983.23	976.84	Incocccible
PZ-11 PZ-12	WT	3/24/2017 3/24/2017	13:56	0.57	983.34 982.95	982.38	Inaccessible
PZ-12 PZ-13	WT	3/24/2017	13:56	2.76	982.95	982.38	
PZ-13	WT	3/24/2017	13:52	3.59	984.21	980.62	
PZ-15	WT	3/24/2017	14:05	4.45	985.51	981.06	
PZ-16R	WT	3/24/2017	14:09	4.83	985.16	980.33	
PZ-17	WT	3/24/2017	14:00	2.59	983.49	980.90	
PZ-18	WT	3/24/2017	14:24	3.24	985.28	982.04	
PZ-19	WT	3/24/2017	10:33	5.66	983.58	977.92	
PZ-2	WT	3/24/2017	0:00		978.12		Inaccessible
PZ-20	WT	3/24/2017	10:42	2.71	982.28	979.57	
PZ-21	WT	3/24/2017	12:45	1.90	988.88	986.98	
PZ-22R	WT	3/24/2017	13:09	5.20	988.78	983.58	
PZ-23	WT	3/24/2017	12:40	4.16	989.04	984.88	

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Monitoring	Well	Date	Time	Water	Top of Riser	Groundwater	Remarks
Well ID	Туре			Level	Elevation	Elevation	
				(ft)	(ft)	(ft)	
PZ-24	WT	3/24/2017	12:30	1.67	988.82	987.15	
PZ-25	WT	3/24/2017	12:33	1.79	988.71	986.92	
PZ-26	WT	3/24/2017	0:00		989.05		Has Product
PZ-28	WT	3/24/2017	12:35	3.07	989.02	985.95	
PZ-29R	WT	3/24/2017	13:30	2.05	988.22	986.17	
PZ-3	WT	3/24/2017	12:58	3.00	981.55	978.55	
PZ-30	WT	3/24/2017	0:00	4.73	985.25	980.52	
PZ-31	WT	3/24/2017	12:36	2.82	988.98	986.16	
PZ-4	WT	3/24/2017	10:02	2.91	981.32	978.41	
PZ-5	WT	3/24/2017	11:18	3.10	979.59	976.49	
PZ-6	WT	3/24/2017	10:05	4.09	981.83	977.74	
PZ-7	WT	3/24/2017	10:15	4.13	982.66	978.53	
PZ-8	WT	3/24/2017	0:00	4.61	983.11	978.50	
PZ-9	WT	3/24/2017	10:10	3.73	982.63	978.90	
VAW-115R	WT/S1	3/24/2017	13:22	3.18	985.24	982.06	
VBW-111	WT/S1	3/24/2017	13:02	4.14	984.26	980.12	
VBW-112	S1	3/24/2017	13:05	6.28	985.44	979.16	
VBW-113	WT	3/24/2017	13:47	4.86	985.87	981.01	
VCW-110	WT/S1	3/24/2017	0:00	4.35	985.84	981.49	
VDW-108	S2	3/24/2017	10:37	8.67	983.76	975.09	
VEW-105	WT	3/24/2017	0:00		988.08		Inaccessible
VEW-106	WT	3/24/2017	11:27	2.52	987.79	985.27	
VEW-114R	WT	3/24/2017	11:25	2.86	988.86	986.00	
VFW-104	WT/S2	3/24/2017	10:56	2.42	978.74	976.32	
VPW-101	S1	3/24/2017	13:13	3.05	986.81	983.76	
VPW-102	S2	3/24/2017	14:54	2.22	966.75	964.53	
VPW-103	WT/S1	3/24/2017	10:38	3.26	982.05	978.79	

Monitoring Well ID	Well Type	Date	Time	Water Level	Top of Riser Elevation	Elevation	Remarks
221112				(ft)	(ft)	(ft)	
CSX-18D	SR	3/29/2017	9:34	20.53	964.96	944.43	
MW-101D	SR	3/29/2017	10:05	38.47	988.15	949.68	
MW-204D	SR	3/29/2017	10:09	29.00	994.26	965.26	
MW-301D	SR	3/29/2017	9:53	30.67	970.44	939.77	
MW-401D	SR	3/29/2017	11:17	30.43	974.57	944.14	
MW-402D	SR	3/29/2017	10:40	20.17	966.36	946.19	
MW-403D	SR	3/29/2017	10:26	28.80	977.36	948.56	
MW-404D	SR	3/29/2017	10:18	37.78	988.83	951.05	
MW-405D	SR	3/29/2017	11:01	33.20	982.45	949.25	
MW-407D	SR	3/29/2017	13:03	12.69	956.24	943.55	
MW-408D	SR	3/29/2017	13:10	13.51	957.07	943.56	
MW-409D	SR	3/29/2017	12:35	5.09	942.49	937.40	
MW-410D	SR	3/29/2017	13:17	8.29	947.63	939.34	
MW-411D	SR	3/29/2017	13:31	24.74	943.43	918.69	
MW-412D	SR	3/29/2017	13:25	22.67	949.64	926.97	
MW-413D	SR	3/29/2017	9:44	26.10	970.13	944.03	
MW-414D	SR	3/29/2017	9:49	27.80	971.91	944.11	
MW-416D	SR	3/29/2017	9:29	21.77	965.84	944.07	
MW-417D	SR	3/29/2017	9:40	20.87	964.96	944.09	
MW-418D	SR	3/29/2017	9:24	20.96	965.06	944.10	
MW-419D	SR	3/29/2017	11:47	23.37	967.40	944.03	
MW-419M	MB	3/29/2017	11:44	23.20	967.50	944.30	
MW-420D	SR	3/29/2017	11:38	21.23	965.26	944.03	
MW-420M	MB	3/29/2017	11:35	19.81	964.85	945.04	
MW-421D	SR	3/29/2017	11:55	14.37	958.50	944.13	
MW-422D	SR	3/29/2017	10:55	33.75	980.98	947.23	
MW-424D	SR	3/29/2017	11:07	32.61	979.74	947.13	
MW-432D	SR	3/29/2017	10:15	30.85	974.50	943.65	
MW-432M	MB	3/29/2017	10:19	18.55	974.90	956.35	
MW-433D	SR	3/29/2017	10:24	26.17	970.43	944.26	
MW-434D	SR	3/29/2017	10:30	21.14	965.33	944.19	
MW-435D	SR	3/29/2017	10:38	11.88	955.91	944.03	
MW-436D	SR	3/29/2017	10:45	18.19	962.37	944.18	
MW-437D	SR	3/29/2017	11:00	6.44	948.38	941.94	
MW-438D	SR	3/29/2017	12:10	28.51	972.59	944.08	
MW-439D	SR	3/29/2017	11:34	11.51	955.58	944.07	
MW-440D	SR	3/29/2017	0:00		936.70		Artesian
MW-441D	SR	3/29/2017	12:03	30.29	974.38	944.09	
MW-442D	SR	3/29/2017	10:10	31.48	975.68	944.20	
MW-443D	SR	3/29/2017	12:20	35.60	979.72	944.12	
MW-444D	SR	3/29/2017	11:21	2.08	934.18	932.10	
MW-447D	SR	3/29/2017	11:45	37.86	965.84	927.98	
MW-448D	SR	3/29/2017	11:28	7.80	935.38	927.58	
MW-449D	SR	3/29/2017	11:50	30.01	970.44	940.43	
MW-450D	SR	3/29/2017	11:16	16.41	910.51	894.10	
MW-451D	SR	3/29/2017	11:55	23.79	967.32	943.53	
MW-453D	SR	3/29/2017	0:00		923.25		Artesian

APPENDIX B

Data Usability Summary Reports

Data Usability Summary Report (DUSR) MAHLE Vandalia, Ohio - Quarter 4, 2016 - Surface Water Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-72665-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2016-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
605-112816-1520	732-112816-1630	4479-112916-0001
607-112816-1345	810-112916-1020	4479-112916-0002
717-112916-1102	4479-112816-0001	4479-112916-0003
725-112916-1610	4479-112816-0002	4479-112916-0004
731-112916-1430	4479-112816-0003	4479-112916-0005

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). If a QAPP does not exist, all dilutions were still reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below. In cases when multiple dilutions are reported per sample, the reviewer chose the lowest dilution with results still within the calibration range and rejected the alternative result. No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
10.00		• • • •			2 , , ,	
A3UX10	12/05/16	Dichlorodifluoromethane	52.60	0.42	All samples run 12/5	See Action #1 Below
	13:10	Bromomethane	-36.90	0.09	All samples run 12/5	See Action #1 Below
		Chloroethane	-53.00	0.09	All samples run 12/5	See Action #1 Below
A3UX10	12/06/16	Chloroethane	-48.70	0.10	All samples run 12/6	See Action #1 Below
	10:57					

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated detection limit.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is found to be influenced by the amount found in any associated blank. USEPA method specific guidelines are followed when evaluating any detect found in a blank. Common laboratory contaminants include methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters. Target analytes were not detected in associated blank samples (trip, equipment, or method) collected, prepared and/or analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
4479-112816-0001	Acetone	7.0 J ug/L	None, all samples ND.	None.
Trip Blank				
4479-112916-0001	Acetone	4.6 J ug/L	None, all samples ND.	None.
Trip Blank				
4479-112816-0003	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
4479-112916-0004	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
4479-112916-0005	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
4479-112816-0002	All VOCs	ND	None, FB is clean.	None.
Field Blank				
4479-112916-0002	All VOCs	ND	None, FB is clean.	None.
Field Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of $\pm 100\%$ and $\pm 50\%$ of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	731-112916-1430	4479-112916-0003	%RPD	sample results with:
All VOCs	ND	ND	NA	None, Both ND.

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 2/10/2017

Data Usability Summary Report (DUSR) MAHLE Vandalia, Ohio - Quarter 4, 2016 - Surface Water Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-72770-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2016-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
413D-120116-1510	775-120116-0945	4479-113016-0002
418D-120116-1520	776-113016-1535	9119-113016-0003
425S-120116-1220	800-120116-1315	4479-120116-0001
740-113016-1440	806-113016-1227	4479-120116-0002
741-120116-1020	814-113016-1511	4479-120116-0003
743-113016-1220	815-113016-1025	4479-120116-0004
759-120116-1110	4479-113016-0001	9119-120116-0001

Project Samples were analyzed according to the following analytical methods:

Parameter	Analytical Method	Holding Time Criteria
1. VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). If a QAPP does not exist, all dilutions were still reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below. In cases when multiple dilutions are reported per sample, the reviewer chose the lowest dilution with results still within the calibration range and rejected the alternative result.

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	806-113016-1227	~714.3x	Abundance of non-trgt analyte	No further action
All VOCs	1x	425S-120116-1220	20x	Abundance of non-trgt analyte	No further action
All VOCs	1x	418D-120116-1520	5x	Abundance of non-trgt analyte	No further action
All VOCs	1x	759-120116-1110	2x	Abundance of non-trgt analyte	No further action

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the acceptance criteria of 30% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX11	11/08/16 10:01	Bromoform	NA	RRF < 0.1	All Project Samples	See Action #2 Below

Action #2

Positive results are qualified "J", estimated and non-detected analytes as "R", rejected.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	% D	RRF	Affected Sample(s)	Corrective Action
A3UX11	11/08/16	Acrolein	51.30	0.04	None, analyte not	None.
	12:18				reported.	
A3UX11	12/06/16	Bromomethane	-33.80	0.07	Analyzed on 12/6	See Action #1 Below
	10:36	Chloroethane	-27.10	0.08	Analyzed on 12/6	See Action #1 Below
		Hexane	-28.10	0.05	None, not reported.	None.
		Methyl cyclohexane	-26.10	0.26	Analyzed on 12/6	See Action #1 Below
A3UX11	12/07/16	Bromomethane	-40.70	0.06	Analyzed on 12/7	See Action #1 Below
	10:55	Chloroethane	-34.00	0.08	Analyzed on 12/7	See Action #1 Below

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is found to be influenced by the amount found in any associated blank. USEPA method specific guidelines are followed when evaluating any detect found in a blank. Common laboratory contaminants include methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters. Target analytes were not detected in associated blank samples (trip, equipment, or method) collected, prepared and/or analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
4479-113016-0001	All VOCs	ND	None, TB is clean.	None.
Trip Blank				
4479-120116-0001	Acetone	2.8 J ug/L	None, samples all ND.	None.
Trip Blank				
4479-120116-0002	Xylenes (total)	0.25 J ug/L	815-113016-1025	R
Field Blank				
4479-113016-0002	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
9119-113016-0003	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
9119-120116-0001	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
4479-120116-0004	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID /			%R			
Project Sample MS	Type	Target Analyte(s)	Criteria	%R	%RPD	Affected Sample(s)
775-120116-0945	MSD	Cyclohexane	36 - 144	85	21	None, sample is ND.
258434	MSD	Methyl cyclohexane	31 - 139	81	29	None, sample is ND.
	MSD	1,1,2-Trichloro-1,2,2-trifluoroethane	41 - 149	88	29	None, sample is ND.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of $\pm 100\%$ and $\pm 50\%$ of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	800-120116-1315	4479-120116-0003	%RPD	sample results with:
All VOCs	ND	ND	NA	None, Both ND.

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 2/10/2017

Data Usability Summary Report (DUSR) MAHLE Vandalia, Ohio - Quarter 4, 2016 - Surface Water Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-72796-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2016-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID
416D-120216-1010	4479-120216-0001
417D-120216-1130	4479-120216-0002
420D-120216-1205	9119-120216-0001
420M-120216-1235	9119-120216-0002
730-120216-1025	9119-120216-0003

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). If a QAPP does not exist, all dilutions were still reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below. In cases when multiple dilutions are reported per sample, the reviewer chose the lowest dilution with results still within the calibration range and rejected the alternative result.

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	420M-120216-1235	25x	Abundance of non-trgt analyte	No further action

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the acceptance criteria:

Inst.	Date / Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX11	11/08/16 10:01	Bromoform	NA	RRF < 0.1	All Project Samples	See Action #2 Below

Action #2

Positive results are qualified "J", estimated and non-detected analytes as "R", rejected.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	% D	RRF	Affected Sample(s)	Corrective Action
A3UX11	11/08/16	Acrolein	51.30	0.04	None, analyte not	None.
	12:18				reported.	
A3UX11	12/06/16	Bromomethane	-33.80	0.07	Analyzed on 12/6	See Action #1 Below
	10:36	Chloroethane	-27.10	0.08	Analyzed on 12/6	See Action #1 Below
		Hexane	-28.10	0.05	None, not reported.	None.
i		Methyl cyclohexane	-26.10	0.26	Analyzed on 12/6	See Action #1 Below

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated detection limit.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is found to be influenced by the amount found in any associated blank. USEPA method specific guidelines are followed when evaluating any detect found in a blank. Common laboratory contaminants include methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters. Target analytes were not detected in associated blank samples (trip, equipment, or method) collected, prepared and/or analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
4479-120216-0001	Acetone	7.1 J ug/L	None, all samples ND.	None.
Trip Blank	Methylene chloride	0.55 J ug/L	None, all samples ND.	None.
4479-120216-0002	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				
9119-120216-0003	All VOCs	ND	None, EB is clean.	None.
Equipment Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID /			%R			
Project Sample MS	Type	Target Analyte(s)	Criteria	%R	%RPD	Affected Sample(s)
420M-120216-1235	MS/MSD	All VOCs	Various	Within	Within	None, all within limits.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of $\pm 100\%$ and $\pm 50\%$ of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	420D-120216-1205	9119-120216-0002	%RPD	sample results with:
cis-1,2-Dichloroethene	39 ug/L	41 ug/L	5%	None, RPD < 35%
trans-1,2-Dichloroethene	0.43 J ug/L	1.4 U ug/L	NA	None, Abs. Diff < RL
Benzene	1.1 J ug/L	1.2 J ug/L	NA	None, Abs. Diff < RL
Vinyl chloride	9.7 ug/L	10 ug/L	3%	None, RPD < 35%
1,1-Dichloroethane	0.4 J ug/L	0.39 J ug/L	NA	None, Abs. Diff < RL
Trichloroethene	1.9 ug/L	1.9 ug/L	NA	None, Abs. Diff < RL

	Original Sample ID.	FD Sample ID.		Flag Original and FD
Target Analyte(s)	730-120216-1025	9119-120216-0001	%RPD	sample results with:
cis-1,2-Dichloroethene	17 ug/L	18 ug/L	6%	None, RPD < 35%
trans-1,2-Dichloroethene	0.8 J ug/L	0.85 J ug/L	NA	None, Abs. Diff < RL
Trichloroethene	5.1 ug/L	5 ug/L	2%	None, RPD < 35%

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within ± 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 2/13/2017

Data Usability Summary Report (DUSR) MAHLE Vandalia, Ohio - Quarter 4, 2016 - Surface Water Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-73014-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2016-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID
B005-120716-1150	E001-120716-1250
B006-120716-1155	F001-120716-1450
C001-120716-1215	G004-120716-1535
D001-120716-1240	4226-120716-0001

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). If a QAPP does not exist, all dilutions were still reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below. In cases when multiple dilutions are reported per sample, the reviewer chose the lowest dilution with results still within the calibration range and rejected the alternative result.

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	D001-120716-1240	5x	Abundance of non-trgt analyte	No further action
All VOCs	1x	E001-120716-1250	5x	Abundance of non-trgt analyte	No further action

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX10	12/16/16	Bromomethane	-55.00	0.06	Analyzed on 12/16	See Action #1 Below
	11:41	Chloroethane	-70.10	0.06	Analyzed on 12/16	See Action #1 Below
A3UX10	12/18/16	Bromomethane	-42.80	0.08	Analyzed on 12/18	See Action #1 Below
	12:43	Chloroethane	-59.20	0.08	Analyzed on 12/18	See Action #1 Below
		Hexane	20.50	0.07	None, not reported.	None.

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated detection limit.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is found to be influenced by the amount found in any associated blank. USEPA method specific guidelines are followed when evaluating any detect found in a blank. Common laboratory contaminants include methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters. Target analytes were not detected in associated blank samples (trip, equipment, or method) collected, prepared and/or analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
4226-120716-0001	Acetone	8.9 J ug/L	None, all samples ND.	None.
Trip Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Туре	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
Precision Missing	LCSD	All VOCs	Various	Present	Absent	This report is not
						supported by any
						precision (RPD) data.
						Neither MSD, LCSD, or
						duplicate was analyzed.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of $\pm 100\%$ and $\pm 50\%$ of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 2/13/2017

Data Usability Summary Report (DUSR) MAHLE Vandalia, Ohio - Quarter 4, 2016 - Surface Water Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-73893-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

• USEPA National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2016-002) and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sw01-122916-1350 SW04-122916-1335 4212-122916-0001

Project Samples were analyzed according to the following analytical methods:

, in the second	Paran	neter			Analytical Method	Holding Time Criteria
1.	VOCs				EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). If a QAPP does not exist, all dilutions were still reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below. In cases when multiple dilutions are reported per sample, the reviewer chose the lowest dilution with results still within the calibration range and rejected the alternative result.

During the analysis of VOCs (EPA Method 8260B) the reporting limits were greater than the Project-specific Quality Assurance Project Plan (QAPP) criteria. The following project sample data as specified in the following table were affected:

Target Analyte(s)	QAPP RL	Sample ID	Lab Package RL	Reason	Action
All VOCs	1x	SW04-122916-1335	~6.67x	Abundance of non-trgt analyte	No further action

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the initial calibration standards for the following target compound(s) exhibited a percent relative standard deviation (%RSD) greater than the acceptance criteria:

	Date /					
Inst.	Time	Target Analyte(s)	%RSD	RRF	Affected Sample(s)	Corrective Action
A3UX17	12/09/16	Bromoform	24.00	RRF < 0.1	All Project Samples	See Action #2 Below.
	17:03	Bromodichloromethane	9.60	RRF < 0.3	All Project Samples	See Action #2 Below.
		cis-1,3-Dichloropropene	NA	RRF < 0.3	All Project Samples	See Action #2 Below.

Action #2

Positive results are qualified "J", estimated and non-detected analytes as "R", rejected.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria:

	Date /					
Inst.	Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX17	12/09/16	1,2,4-Trichlorobenzene	-31.70	0.39	None, not reported.	None.
	19:16	1,2,3-Trichlorobenzene	-41.10	0.57	All Project Samples	See Action #1 Below
A3UX17	01/05/17	Chloroethane	-43.00	0.08	Analyzed on 01/05	See Action #1 Below
	11:08	1,2,4-Trichlorobenzene	-39.80	0.61	Analyzed on 01/05	See Action #1 Below
		1,2,3-Trichlorobenzene	-48.30	0.51	None, not reported.	None.
		Bromodichloromethane	-2.40	RRF < 0.3	Analyzed on 01/05	See Action #2 Below.
A3UX17	01/06/17	Chloroethane	-51.50	0.06	Analyzed on 01/06	See Action #1 Below
	11:52	1,2,4-Trichlorobenzene	-44.20	0.56	Analyzed on 01/06	See Action #1 Below
		Naphthalene	-51.60	1.29	None, not reported.	None.
		1,2,3-Trichlorobenzene	-53.80	0.46	None, not reported.	None.

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated detection limit.

Action #2

Positive results are qualified "J", estimated and non-detected analytes as "R", rejected.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is found to be influenced by the amount found in any associated blank. USEPA method specific guidelines are followed when evaluating any detect found in a blank. Common laboratory contaminants include methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters. Target analytes were not detected in associated blank samples (trip, equipment, or method) collected, prepared and/or analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Qualifiers
4212-122916-0001	Acetone	17.0 ug/L	None, samples all ND.	None.
Trip Blank				

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
Precision Missing	LCSD	All VOCs	Various	Present	Absent	This report is not supported by any
						precision (RPD) data. Neither MSD, LCSD, or duplicate was analyzed.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of $\pm 100\%$ and $\pm 50\%$ of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date: 2/13/2017

Data Usability Summary Report (DUSR) MAHLE Vandalia SW

Analytical Laboratory: TestAmerica, Inc. - North Canton, OH Sample Delivery Group # 240-76012-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)
- USEPA Region 1 "New England Data Validation Functional Guidelines for Evaluating Environmental Analyses", Revised December 1996

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sw04-022317-1510 SW01-022317-1525 4212-022317-0001

Project Samples were analyzed according to the following analytical methods:

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B/624	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed.

- · Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- · Internal Standard Recoveries
- Target Compound Identification
- · Sample Data Reporting Format
- · Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

	Date /					
Inst.	Time	Target Analyte(s)	% D	RRF	Affected Sample(s)	Corrective Action
A3UX10	03/01/17	2-Hexanone	51.00	0.28	All Project Samples	See Action #1 Below
	11:34					

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated detection limit.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID /			%R			
Project Sample MS	Type	Target Analyte(s)	Criteria	%R	%RPD	Affected Sample(s)
SW04-022317-1510	LCS	2-Hexanone	56 - 124	130		SW04-022317-1510

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and -50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within \pm 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Date:

3/10/2017

 $G:\label{lem:condition} G:\label{lem:condition} G:\l$



VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-October 2016

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
<u>DATE</u>	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
10/1/2016	32.2	46418
10/2/2016	32.1	46281
10/3/2016	31.2	44919
10/4/2016	31.0	44642
10/5/2016	30.9	44556
10/6/2016	31.6	45481
10/7/2016	32.1	46262
10/8/2016	32.0	46043
10/9/2016	31.9	45930
10/10/2016	31.8	45769
10/11/2016	31.8	45720
10/12/2016	31.7	45716
10/13/2016	31.1	44773
10/14/2016	0.0	0
10/15/2016	0.0	0
10/16/2016	0.0	0
10/17/2016	0.0	0
10/18/2016	0.0	0
10/19/2016	0.0	0
10/20/2016	0.0	0
10/21/2016	0.0	0
10/22/2016	0.0	0
10/23/2016	0.0	0
10/24/2016	0.0	0
10/25/2016	0.0	0
10/26/2016	0.0	0
10/27/2016	0.0	0
10/28/2016	0.0	0
10/29/2016	0.0	0
10/30/2016	0.0	0
10/31/2016	0.0	0

TOTAL DISCHARGE (gal) = 592508 AVERAGE DAILY DISCHARGE (gal/day)= 19113

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-November 2016

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
11/1/2016	0.0	0
11/2/2016	0.0	0
11/3/2016	13.7	19735
11/4/2016	30.5	43919
11/5/2016	30.2	43555
11/6/2016	29.9	43112
11/7/2016	29.4	42349
11/8/2016	29.8	42902
11/9/2016	29.5	42532
11/10/2016	29.3	42173
11/11/2016	28.9	41624
11/12/2016	28.7	41372
11/13/2016	28.8	41463
11/14/2016	28.8	41540
11/15/2016	28.9	41603
11/16/2016	28.9	41628
11/17/2016	30.3	43570
11/18/2016	29.6	42613
11/19/2016	30.1	43353
11/20/2016	29.6	42648
11/21/2016	29.6	42687
11/22/2016	29.6	42625
11/23/2016	30.4	43795
11/24/2016	30.5	43983
11/25/2016	29.9	43040
11/26/2016	29.9	43000
11/27/2016	29.9	43060
11/28/2016	32.9	47318
11/29/2016	32.7	47061
11/30/2016	31.4	45145

TOTAL DISCHARGE (gal) = 1183404 AVERAGE DAILY DISCHARGE (gal/day)= 39447

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-December 2016

AVERAGE INFLOW (GPM)

DATE	AVERAGE INFLOW (GPM) BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
12/1/2016	30.8	44358
12/2/2016	30.0	43221
12/3/2016	30.2	43535
12/4/2016	32.2	46381
12/5/2016	30.8	44319
12/6/2016	36.1	51961
12/7/2016	32.4	46634
12/8/2016	31.3	45085
12/9/2016	30.7	44193
12/10/2016	30.4	43811
12/11/2016	31.6	45447
12/12/2016	31.1	44725
12/13/2016	30.1	43298
12/14/2016	30.3	43703
12/15/2016	29.8	42895
12/16/2016	29.7	42744
12/17/2016	38.6	55514
12/18/2016	40.9	58909
12/19/2016	32.8	47224
12/20/2016	31.0	44705
12/21/2016	30.4	43707
12/22/2016	29.9	43085
12/23/2016	30.1	43296
12/24/2016	32.2	46424
12/25/2016	29.7	42792
12/26/2016	31.1	44846
12/27/2016	33.5	48241
12/28/2016	30.0	43255
12/29/2016	30.5	43977
12/30/2016	29.7	42791
12/31/2016	29.3	42156

TOTAL DISCHARGE (gal) = 1407233 AVERAGE DAILY DISCHARGE (gal/day)= 45395

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-January 2017

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
1/1/2017	28.9	41660
1/2/2017	29.0	41689
1/3/2017	33.6	48341
1/4/2017	31.7	45614
1/5/2017	29.5	42454
1/6/2017	28.3	40706
1/7/2017	27.7	39822
1/8/2017	27.3	39379
1/9/2017	27.3	39360
1/10/2017	29.7	42827
1/11/2017	30.7	44138
1/12/2017	40.3	58087
1/13/2017	38.6	55523
1/14/2017	34.2	49276
1/15/2017	32.1	46162
1/16/2017	32.3	46514
1/17/2017	35.4	50996
1/18/2017	33.0	47516
1/19/2017	31.7	45595
1/20/2017	41.4	59610
1/21/2017	34.1	49035
1/22/2017	31.6	45501
1/23/2017	32.2	46354
1/24/2017	31.0	44584
1/25/2017	30.3	43675
1/26/2017	29.0	41780
1/27/2017	29.2	42048
1/28/2017	30.1	43328
1/29/2017	29.9	43100
1/30/2017	29.6	42691
1/31/2017	29.6	42598

TOTAL DISCHARGE (gal) = 1409963 AVERAGE DAILY DISCHARGE (gal/day)= 45483

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-February 2017

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
2/1/2017	29.1	41844
2/2/2017	29.5	42489
2/3/2017	29.4	42348
2/4/2017	29.4	42321
2/5/2017	29.4	42358
2/6/2017	29.4	42395
2/7/2017	34.8	50042
2/8/2017	31.8	45838
2/9/2017	30.8	44376
2/10/2017	30.1	43338
2/11/2017	30.4	43712
2/12/2017	30.7	44155
2/13/2017	29.4	42325
2/14/2017	29.3	42229
2/15/2017	29.2	42022
2/16/2017	29.0	41730
2/17/2017	28.9	41659
2/18/2017	28.9	41678
2/19/2017	28.8	41539
2/20/2017	28.8	41430
2/21/2017	28.8	41433
2/22/2017	28.9	41568
2/23/2017	28.6	41128
2/24/2017	29.3	42174
2/25/2017	28.8	41426
2/26/2017	28.4	40865
2/27/2017	28.4	40849
2/28/2017	29.6	42644

TOTAL DISCHARGE (gal) = 1191913 AVERAGE DAILY DISCHARGE (gal/day)= 42568

VANDALIA-MIGRATION CONTROL DAILY DISCHARGE REPORT-March 2017

AVERAGE INFLOW (GPM)

	AVERAGE INFLOW (GPM)	
DATE	BEDROCK/OVERBURDEN/SECOND SAND	DAILY DISCHARGE (GPD)
3/1/2017	12.5	17949
3/2/2017	15.0	21589
3/3/2017	25.1	36139
3/4/2017	27.1	39034
3/5/2017	26.5	38141
3/6/2017	28.4	40902
3/7/2017	28.5	41000
3/8/2017	27.3	39276
3/9/2017	27.2	39112
3/10/2017	26.6	38364
3/11/2017	25.2	36330
3/12/2017	24.8	35748
3/13/2017	17.7	25502
3/14/2017	0.0	0
3/15/2017	0.0	0
3/16/2017	0.0	0
3/17/2017	2.8	4041
3/18/2017	0.0	0
3/19/2017	0.0	0
3/20/2017	14.7	21158
3/21/2017	40.1	57687
3/22/2017	33.8	48678
3/23/2017	29.2	42112
3/24/2017	20.0	28805
3/25/2017	0.0	0
3/26/2017	0.0	0
3/27/2017	0.0	0
3/28/2017	14.1	20297
3/29/2017	29.1	41872
3/30/2017	30.2	43494
3/31/2017	36.1	52050

TOTAL DISCHARGE (gal) = 809281 AVERAGE DAILY DISCHARGE (gal/day)= 26106

APPENDIX D

Groundwater Migration Control System Activity Log



Date	Time on site	Time left site	H&A personnel	Activities while on-site
8/30/16	1400	5:30	Gr/Me	TRANSLESHOOT SUMP AT ALLEM & PLC
7.1.16	12:30	14:30	MR	Weekly inspection
9[2]6	/[:00	12:00	ELS	CHack System / dournload system data
7/4/16	16:00	M:00	EL!	CHECK SYSTEM OPERATIONS
7.6.16	1:00	60.00	MR	weekly lusp, collect samples, seed & grade 301-D
9.7.16	14:30	16:35	MR	Check on 438D & Reconnect phone & Fax Lines
9/14/16	((:00	12100	ELS	Weekly Inspection: Data Download
7-17-16	14:45	15:55	TMU	Restort System
9-18-18	0800	1030	ELS	Restart system
9-23-16	ු අතර	1200	೯೭೪	Bhutdown rosponer; Eyewash Change: Wastly Insperfien
9-30-16	0930	1800	WIR	Replaced BR recovery will pump; Restarted system; Workly inspection
10-6-16	(1:00	12:10	WJR	Weekly inspection
10-11-15	0830	12:00	ELS	Monthly Sampling: Weekly Inspection
10-14-16	12-0	13:00	ELS	Restart System
10-14-16	1400	1500	ELE	Download Syctem Data
1020-16	0700	12:36	WOR	Met with electrician to diagnose BR pump; Weekly inspection
10-25-16	0700	14200	WIR	wheely inspection; BR many diagnosis with electrician
11-3-16	0700	18:20	MIR	Replaced BR repovery well pump ; Restanted system
11-9-16	0800	1100	ELS	Sample Mc outful; Weekly inspection; Date download; Pick up pump; Munique
11-17-16	0830	15:00	WITE	Installed new phone line; weekly inspection
11-22-16	1530	(63)	ELS	Weekly Inspection
12-27/6	14:00	16:00	WJR	Weekly inspection
12/1/16	14:00	[0:02	THUIGES	Weekly Trispection More drums trish
12/14/16	16:15	17:00	WJR	Weekly inspection

Vandalia Treatment System Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
10/10/14				
	13:45		TMV	Sample MC
	C9130	17:50	THU/WIR	Redrock WL Weekly Inspection
12/29/16	10:00	1300	ELS	Sample MC Redirock we weekly Inspection Weekly laspection; SS Flow Regulation/Adjustment; and Chacks
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Date	Time on site	Time left site	H&A personnel	Activities while on-site
1/6/17	1130	0821	ELS.	Weskly Inspection
119/17	13.30	15:15	TMU	Sample MC
1/11/17	13:00	14:00	w/oTR	Weeklyinspection
1/17/17	16:10	17:10	WJR	Weekly inspection
1/25/17	14:00	14:40	WITR	Checked phone line
1/27/17	8:45	14:00	WATE	ATAT phene line repair; Wookly inspection; Changed Maxisperse drum
1/30/17	10:40	14210	WJR	Weekly inspection
2/1/17	13:0a	16:05	WJR	Tostel building same about
2/3//7	14:00	15:30	TMU	Sample MC
2/10/17	14:20	16210	WIR	Weekly inspection
2/14/17	15:30	16=15	WIR	Weekly inspection
2/24/17	09;30	16:00	WJR	Weekly inspection
3/2/17	08:50	12:10	WIR	Alarm response
3/3/17	14:20	16500	WIR	Weekly inspection
3/8/17	15:10	16:00	WITE	Weekly inspection
3/13/17	14:10	18:30	WIR	Weekly inspection; That down system in preparation for strapping tower closing
3/14/10	8:00	18:00	JR/WJR	Acid wash
3/15/17	7:30	15:30	JB/WJR	Stripping tower tray cleaning
3/16/17	7:30	19130	JB/WJR	Stripping tower tray cleaning
3/17/17	7:30	17:45	ALM/SE	Re-started system
3/20/17	13:48	18:05	WITE	Re-started system
3/22/17	14:00	16:00	WIR	Sample Mc
3/23/17	14:20	15:15	WJR	Weekly inspection
3/24/17	(5103	16/13	ELS MIR	System Shutdown Air stripper fower

Vandalia Treatment System

Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
3/27/17		12:15	WTR/THY	Repaired leak in stripping tower Re-started existen
3/28/17		-	WITE	Re-started system
3/29/17	13:10	14:00	WIR	Re-started existen Weekly inspection
	79			
		_		
		JI.		
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APPENDIX E Groundwater Migration Control System Inspection Checklists

				.0	INSPECTION DATE: 10/6/16 INSPECTION BY: WJR
<u> </u>	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					<u> </u>
FIRST AID KIT	х		У	N	
EYEWASH STATION	х		7		8
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Y		
EMERGENCY LIGHTING	х		УУ		
SITE ISSUES	Х	.]	У	N	
SITE SECURITY		•	•		
FENCING		х	7	2	
GATES		х	, y	N	
LOCKS		х	y	N	
SIGNS		Х	ý	N	
SITE		Х	У	J	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	7	7	
BUILDING		х	Y	N	
RECOVERY WELL		Х	N		
ACCESS ROAD		х	У	N	
WASTE					
CARBON	х		_	- yi	
SOLID	x		У	2	

			77				INSPECTION DATE: /0/6/16 INSPECTION BY: WJK
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM					Y	_ N	·
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				ÿ	N	
LOG SYSTEM OPERATING PARAMETERS	х				Ÿ	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х			*	ý	N	
TEST LEVEL CONTROLS ETC.	х				Ý	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Ÿ	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Ÿ	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				У	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	N		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				У	l N	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Ý	3	
VERIFY PUMP OPERATION	x	<u> </u>			Ý	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			N.		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			· N		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x	_N		
CHECK BAG FILTER PRESSURES	x				Y	N	
CHECK CARBON FILTER PRESSURES	х				У	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				<u> </u>	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x		~	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x	N.		
CHECK & CALIBRATE INSTRUMENTATION			ļ	x			
MANUALLY OPERATE & CHECK VALVES				x	N	_	
MANUALLY TEST SAFETY INTERLOCKS			x		N		
						1 10	

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	11:45	37.21	974.47	9.37.26
_MW-414D	11:25	34.28	971.91	937.63
MW-413D	11:40	32.60	970.13	9.37. 53
MW-416D	/1:35	28.29	965.84	932.55

INSPECTION DATE: 10-11-14
INSPECTION BY: ELS

	MINIMUM I	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	МОМТН	(YES or NO)	(YES or NO)	
SITE SAFETY		3.00			W
FIRST AID KIT	х		y	2	
EYEWASH STATION	х		7	7	- N
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		7	,	
EMERGENCY LIGHTING	х		7	2	
SITE ISSUES	х		7	~	
SITE SECURITY					DANA OR PROPERTY
FENCING		х			
GATES		x	1		
LOCKS		х	1		
SIGNS		х			
SITE		х	-		
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		x			
BUILDING		X .			
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE	200	1967	10	52	
CARBON	х				39.W 97 W
SOLID	x		4	7	

							INSPECTION DATE: (0-11-14 INSPECTION BY: ELC
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ CORRECTIVE	COMMENTS	
			1	оя	TESTED	MEASURES REQ'D	
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Y	7	
LOG SYSTEM OPERATING PARAMETERS	x				ÿ	2	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				У	زر	
TEST LEVEL CONTROLS ETC. "	x		1		y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Ÿ	_ N	00 1940 1955 19 10 10 10 10 10 10 10 10 10 10 10 10 10
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	1	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				7	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х .				Y	AJ.	
VISUALLY INSPECT ELECTRICAL SYSTEM	x	1			Ý	Ň	
VERIFY PUMP OPERATION	х				У	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			23.67 0000
CHECK BAG FILTER PRESSURES	X				Υ .	N	
CHECK CARBON FILTER PRESSURES	x				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Y	l u	
AMP TRANSFER PUMP MOTORS				х			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				х			ACCCC A - PAGE TO LIGHT STORM OF LIGHT
MANUALLY OPERATE & CHECK VALVES				×			11
MANUALLY TEST SAFETY INTERLOCKS			х				
						-	

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1058	38.30	174.47	934.27
MW-414D	1053	35. a4	971.91	936.47
MW-413D	1050	33.55	970.13	934.58
MW-416D	1046	29.23	965.84	936.61

7/					INSPECTION DATE: 10/20/16 INSPECTION BY: WJR
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY	•	•	,		
FIRST AID KIT	х		У	14	
EYEWASH STATION	х		Ý	N.	
FIRE EXTINGUISHERS\SMOKE DETECTORS	x		ý	7	
EMERGENCY LIGHTING	х		ý	N	
SITE ISSUES	х		ý	N	
SITE SECURITY			•		
FENCING		Х	Y	Al	
GATES		х	Ż		
LOCKS		х	Ý	N	
SIGNS		х	Ý	N	
SITE		x	У	N	
SITE GROUNDS				• • • • • • • • • • • • • • • • • • • •	
DRAINAGE DITCHES/SWALES		X	У	N	
BUILDING		х	y	N	
RECOVERY WELL		х	Y	ý	Workel on BR pump with electrician
ACCESS ROAD		х	у	N	
WASTE				<u> </u>	
CARBON	х				
SOLID	Х		Y	N	

,			172				INSPECTION DATE: 10/20/16 INSPECTION BY: WJR
			•		INSPECTED	CORRECTIVE	COMMENTS
r	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REO'D	
				OR	1		-
	WEEK	MONTH	MONTHS	AS REOD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				У У	У	System down : AR own Biluse
LOG SYSTEM OPERATING PARAMETERS	х				Ý	N	System down ; BR pump Rilune
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				l ÿ	N	
TEST LEVEL CONTROLS ETC.	x				l y	7	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	×				Ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Ÿ	No.	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				Y.	7	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	N		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				<u> </u>	7	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Ý	N	
VERIFY PUMP OPERATION	x				Y	Y	BR pump down
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			J	_	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х				_	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x		_	
CHECK BAG FILTER PRESSURES	x				4	N	
CHECK CARBON FILTER PRESSURES	x				Ÿ	2	System down
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				. 4	N	to H
AMP TRANSFER PUMP MOTORS				x	l i	_	
TRANSFER PUMPS - PERFORM P M. SERVICE				x	N	_	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х		~	
CHECK & CALIBRATE INSTRUMENTATION				x	N	~	
MANUALLY OPERATE & CHECK VALVES				x		_	
MANUALLY TEST SAFETY INTERLOCKS			x		1	-	
	 -		 				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	12:10	.33.22	974.47	941.25
_ MW-414D	11:45	30.47	971.91	941.44
MW-413D	12300	28.78	970.13	941.35
MW-416D	11:55	24.61	965.84	941.23

					INSPECTION DATE: 10/25/16 INSPECTION BY: WJZ
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES of NO)	
SITE SAFETY		•			4
FIRST AID KIT	х		У	N	
EYEWASH STATION	х		Y	N	p .
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		ý	٨١	
EMERGENCY LIGHTING	Х		ÿ	N	
SITE ISSUES	х		Ý	Ñ	
SITE SECURITY		•	V	•	X
FENCING		x	У	N.	
GATES		х	7	N	
LOCKS		x	У	1	
SIGNS		х	y	N.	
SITE		х	7	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	У	N.	
BUILDING		х	Y		
RECOVERY WELL		Χ	У	N	1
ACCESS ROAD		х	ý	N.	
WASTE					
CARBON	х			-,	
SOLID	х		У		

# · · · · · · · · · · · · · · · · · · ·			flo.			·	INSPECTION DATE: 10/25/16 INSPECTION BY: WJR
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REO'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REOD(1)	(YES) OR (NO)	CAES ~ MUI	
GROUNDWATER SYSTEM				1	(122) 211 (100)	(120 or 110)	
/ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Y	¥	Systemation, BR pump
LOG SYSTEM OPERATING PARAMETERS	x				У	N	
JSE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				У	N	
TEST LEVEL CONTROLS ETC.	x				ý	J	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x "				ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				ý	A.J	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х	IJ		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Υ	N	·
VISUALLY INSPECT ELECTRICAL SYSTEM	х	1			Ý		
ERIFY PUMP OPERATION	x				Y	У	BR pump down
WELL LEVELS - MANUALLY CHECK YWATER LEVEL VS. PLODATA		х			. 7	<u>-</u>	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			N		
NR STRIPPER - CHECK SOLIDS ACCUMULATION				x	N	_	
CHECK BAG FILTER PRESSURES	x				7	N	
CHECK CARBON FILTER PRESSURES	x				4		
NA STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				ý	N/	
AMP TRANSFER PUMP MOTORS				x	N		
TRANSFER PUMPS - PERFORM P.M. SERVICE				x	N	~	
NA STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х	N		
CHECK & CALIBRATE INSTRUMENTATION				х	N		
WANUALLY OPERATE & CHECK VALVES				x	N	-	
MANUALLY TEST SAFETY INTERLOCKS			х		N		R o
			+	1			

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

Frequency that may be required is based on manufacturer data for the system equipment, system atarms, and Owner requirements

					INSPECTION DATE: 11/3/16 INSPECTION BY: WJR
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
2	WEEK	MONTH	(YES or NO)	(YES or NO)	.85
SITE SAFETY					₩
FIRST AID KIT	х		. 4	7	
EYEWASH STATION	х		V	2	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Ý	٨١	
EMERGENCY LIGHTING	х		У	l S	
SITE ISSUES	х	1	ý	N	
SITE SECURITY			•		11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
FENCING		х	ΥΥ	N	
GATES		х	У	, N	
LOCKS		_ x	Y	N	
SIGNS		х	Y	- N	
SITE		х	Y	N	
SITE GROUNDS			•		
DRAINAGE DITCHES/SWALES		х	Y	~	
BUILDING		х	У	Ž.	
RECOVERY WELL		Х	Ý	N	
ACCESS ROAD		х	Y	N	
WASTE					
CARBON	х		_	-	
SOLID	х		Y	N	

			<i>(2)</i>				INSPECTION BY: WJR.
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR AS REQD(1)	TESTED (YES) OR (NO)	MEASURES REO'D	(A)
GROUNDWATER SYSTEM	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	1		(100 01 110)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x		1		У	A1	
LOG SYSTEM OPERATING PARAMETERS	x	1	T		Y	AI	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	1	1		y	N	
TEST LEVEL CONTROLS ETC	x		1		У	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x		1		¥	N)	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	×				\ \ \ \	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				<u> </u>	2	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	N	_	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				Y	2	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				У	N	
VERIFY PUMP OPERATION	x				7	N	BR purp replaced to yeten testarte
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			N	_	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	L	x			N		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x	N	_	
CHECK BAG FILTER PRESSURES	x				Ÿ	7	
CHECK CARBON FILTER PRESSURES	х				Ÿ	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Ÿ	N	
AMP TRANSFER PUMP MOTORS			1	х	Ń		
TRANSFER PUMPS - PERFORM P.M. SERVICE				х	N	_	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х	N		
CHECK & CALIBRATE INSTRUMENTATION				х	N		
MANUALLY OPERATE & CHECK VALVES				х	N,	_	
MANUALLY TEST SAFETY INTERLOCKS			x	ļ	\ \ <u>\</u>		
		-	-				

^{*} Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	16:50	35.45	974.47	937.02
MW-414D	16210	3246	971.91	939.45
MW-413D	16:40	30.86	970.13	939.27
MW-416D	16:35	26.53	965.84	939.31

					INSPECTION DATE: //-?- 20(6) INSPECTION BY: としょ
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		у	У	
EYEWASH STATION	х		У	У	8.
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		у	Y	
EMERGENCY LIGHTING	х		7	Ÿ	
SITE ISSUES	х		У	У	
SITE SECURITY					
FENCING		х			
GATES		х			. #
LOCKS	<u></u>	х	<u> </u>		
SIGNS		х			
SITE	<u> </u>	х	T		
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING	<u> </u>	х			
RECOVERY WELL	(4)	х	TT .		
ACCESS ROAD		х			
WASTE					
CARBON	х				
SOLID	х		7	N	

							INSPECTION DATE: ((-7-20(4) INSPECTION BY: ELS
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REO'D	
	WEEK	MONTH	MONTHS	AS REQU(1)	(YE\$) OR (NO)	(YES or NO)	ļ ·
GROUNDWATER SYSTEM	_		1		Ψ		<u> </u>
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X		 	 	7	N.	
LOG SYSTEM OPERATING PARAMETERS	x	-	 			N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x		-		Y	N	
TEST LEVEL CONTROLS ETC.	х		-		Ÿ	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x	1	 		γ	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				У	N.	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				>	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х	<u> </u>		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	4×				У	N.	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ÿ	7	
VERIFY PUMP OPERATION	x	_			Y	NI.	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			,		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION	П			x			
CHECK BAG FILTER PRESSURES	x	1	1		У	N	
CHECK CARBON FILTER PRESSURES	х				Ý	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				٦	N	
AMP TRANSFER PUMP MOTORS			1	x	_ '		
TRANSFER PUMPS - PERFORM P.M. SERVICE	I			x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				×			
MANUALLY TEST SAFETY INTERLOCKS			x				
	i –						
						İ	

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	0820	38.48	974.47	135.59
MW-414D	0844	35.S9	971.91	936.32
MW-4130	1480	33.89	970.13	936. a4
MW-416D	0838	25.59	965.84	936.25

					INSPECTION DATE: WJR INSPECTION BY: 11/17/16
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	монтн	(YES or NO)	(YES or NO)	
SITE SAFETY					W U W
FIRST AID KIT	х		¥	N N	
EYEWASH STATION	х		У		9
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У		
EMERGENCY LIGHTING	х		Ý		
SITE ISSUES	х		у У	N_	
SITE SECURITY					
FENCING		х	Y	N	
GATES		х	y	7	
LOCKS	ľ	х	Y		
SIGNS		х	У	2	
SITE		х	7	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING		х			
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE					
CARBON	х		_	— ų	
SOLID	Х	67	У	N	

							INSPECTION BY: 11/17/16
		,			INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'O	
				OR		37	
	WEEK	монтн	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM					7	<u></u>	
ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Y	<u> </u>	
OG SYSTEM OPERATING PARAMETERS	х				Y	- ~	
SE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				_ У	1 2	
EST LEVEL CONTROLS ETC.	х				Ÿ	~	
JSE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				¥	N	Installed new phone line
NSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	٨	
NSPECT BUILDING AND FOUNDATION INTEGRITY	х				Ÿ		
SPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х	#5		Test Trip Set Point and Clean Screens and Louvers
NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	N	
/ISUALLY INSPECT ELECTRICAL SYSTEM	x				Ÿ	1	
ERIFY PUMP OPERATION	х				·	. 7	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			,		
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х	<u> </u>			İ	
IR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	x				Y	N	
CHECK CARBON FILTER PRESSURES	x				Y	1	
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Ý	N	
MAP TRANSFER PUMP MOTORS				x			
RANSFER PUMPS - PERFORM P.M. SERVICE				x			
IR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
HECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				x			
AANUALLY TEST SAFETY INTERLOCKS			x				5
						1	

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	12:25	39.24	974.47	935.23
MW-414D	12205	36.34	971.91	935.57
MW-4130	12:15	34.64	970.13	935.49
MW-4160	12:10	30.36	965.84	9.35.48

					INSPECTION DATE: 11-22-16 INSPECTION BY: ELS			
	MINIMUM FF	REQUENCY	INSPECTED/	CORRECTIVE				
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS			
	WEEK	MONTH	(YES or NO)	(YES or NO)				
SITE SAFETY					4			
FIRST AID KIT	х		У	N				
EYEWASH STATION	Х		ን	\sim				
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		y	N.C				
EMERGENCY LIGHTING	Х		ý	7				
SITE ISSUES	х		У	7				
SITE SECURITY			•					
FENCING		х	У	~				
GATES		x	Y	7				
LOCKS		х	4	7				
SIGNS		х	4	N				
SITE		х	У	N	· · · · · · · · · · · · · · · · · · ·			
SITE GROUNDS								
DRAINAGE DITCHES/SWALES		х	Y	J.				
BUILDING		х	م	2				
RECOVERY WELL		х	4	N				
ACCESS ROAD		х	Y	7				
WASTE								
CARBON	x			<u> </u>				
SOLID	Х		У	7				

							INSPECTION DATE: //-22-/6 INSPECTION BY: ELS
					INSPECTED/	CORRECTIVE	COMMENTS
9	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REO'D	
		l		OR		1	
	WEEK	МОНТН	MONTHS	AS REOD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				У	N N	
LOG SYSTEM OPERATING PARAMETERS	x	9,0		<u> </u>	<u> </u>	7	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				y.	_ N	
TEST LEVEL CONTROLS ETC	x				Ý	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х	L.			Ý	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	×				Ý	7	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х		SEP.	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				<u> </u>	N	·
VISUALLY INSPECT ELECTRICAL SYSTEM	х				1 4	1	
VERIFY PUMP OPERATION	x				4	lN	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		×			Ý	7	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	<u> </u>	х			Ÿ	7	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x	<u>'</u>		
CHECK BAG FILTER PRESSURES	х				Y	N	
CHECK CARBON FILTER PRESSURES	x				1	~	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				ΞÝ	V	
AMP TRANSFER PUMP MOTORS				х	19		
TRANSFER PUMPS - PERFORM P.M. SERVICE				X	٠		
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				×	,		
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				w/
		<u> </u>	<u> </u>	<u> </u>			

^{*} Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1280	40.00	974:47	9 34.47
MW-414D	0852	37:10	971.91	434.81
MW-413D	0849	35,40	970.13	934,73
MW-416D	0834	31.10	965.84	934,74

					INSPECTION DATE: 12/2/16 INSPECTION BY: WJR			
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE				
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS			
	WEEK	MONTH	(YES or NO)	(YES or NO)				
SITE SAFETY				<u>, , , , , , , , , , , , , , , , , , , </u>	94			
FIRST AID KIT	х		У	٨١				
EYEWASH STATION	х		y	A)				
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		ý	N				
EMERGENCY LIGHTING	х		У	N				
SITE ISSUES	х	1.0	У	N				
SITE SECURITY			•		- 1			
FENCING		х	уу	N				
GATES		Х	У	N				
LOCKS		Х	ý	L al				
SIGNS		х	У	N	≥ //			
SITE		х	У	N				
SITE GROUNDS								
DRAINAGE DITCHES/SWALES		х	y	N				
BUILDING		х	ý	N				
RECOVERY WELL		х	_ v	N				
ACCESS ROAD		х	У	N				
WASTE								
CARBON	х		_	-				
SOLID	х		7	N _				

			8				INSPECTION DATE: 12/2/16 INSPECTION BY: WTR
	EVERY	EVERY	EVERY 3	MIN. 6 MQ.	INSPECTED/	CORRECTIVE MEASURES REO'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REGO(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	IND REGIO(I)	(153) ON (NO)	(TES OF HO)	
ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				v	J	
LOG SYSTEM OPERATING PARAMETERS	x	1			V	No.	
ISE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	1			\(\sigma\)	2)	
EST LEVEL CONTROLS ETC.	×	1			ý	1 7	
JSE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x	1			ý	1	
NSPECT CONTAINMENT SUMP/FLOOR SEAL	x				ý	1	
NSPECT BUILDING AND FOUNDATION INTEGRITY	x				· Ý	2/	
SPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x		1	Test Trip Set Point and Clean Screens and Louvers
NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	×	1			1 v	~/	
ERIFY PUMP OPERATION	×		1		7	AZ	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			- -	"	
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
IR STRIPPER - CHECK SOLIDS ACCUMULATION				x		90	
CHECK BAG FILTER PRESSURES	×				У	N/	
CHECK CARBON FILTER PRESSURES	x				4	N	
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	×		1		ý	1	
WIP TRANSFER PUMP MOTORS		\top		x	<u> </u>		
RANSFER PUMPS - PERFORM P.M. SERVICE				x			
IR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
HECK & CALIBRATE INSTRUMENTATION				х .			
MANUALLY OPERATE & CHECK VALVES		-		х			
MANUALLY TEST SAFETY INTERLOCKS			x		Y	N	Tested sumphish land switch
		-	+	 			

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	14:30	40.23	974.47	9.74.24
MW-414D	14:10	37.31	971.91	934.60
MW-413D	14:25	35.62	970.13	934.57
MW-416D	14:20	31.34	965.84	934.50

			=		INSPECTION DATE: 12/9/16 INSPECTION BY: TMV
	MINIMUM FI	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Y	Λ	
EYEWASH STATION	х		4	I)	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Y	N	
EMERGENCY LIGHTING	х		1	N	4
SITE ISSUES	х		Y	<u> </u>	
SITE SECURITY					
FENCING		х			
GATES		х			
LOCKS		х			
SIGNS		x			
SITE		х			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х			
BUILDING		х			
RECOVERY WELL		х			
ACCESS ROAD		х			
WASTE					
CARBON	х		Y	N	
SOLID	х		4	N	10

							INSPECTION DATE: 12/9/16 INSPECTION BY: TMV
		lavas			INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN, 6 MO. OR AS REOD(1)	(YES) OR (NO)	MEASURES REO'D	
GROUNDWATER SYSTEM	HELEN	I I I	MONTHS	AS NEGIS(1)	((1ES) ON (MO)	(1E3 GI IVO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OF LEAKS	x				Ч	N	
LOG SYSTEM OPERATING PARAMETERS	×				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				Y	1 1/1	
TEST LEVEL CONTROLS ETC.	х		1		Y	N	The second of th
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Ý	1 M	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	<u>q</u>	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				Y	10	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х			Test Trip Sel Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×				7		i — pino vesto e e
VISUALLY INSPECT ELECTRICAL SYSTEM	x				Y	טו	
VERIFY PUMP OPERATION	x				4	11	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			/		
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				NIA	NIA	Bags offline Carbon offline
CHECK CARBON FILTER PRESSURES	х				NIA	NA	Carbon off line
NIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Ÿ	(1)	
AMP TRANSFER PUMP MOTORS				х		1	
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			5 833
MANUALLY TEST SAFETY INTERLOCKS			х				5790 W POOF POOF O
							W 17 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	13:16	40.00	974.47	934.47
MW-414D	13:05	37.08	971.91	934.83
MW-413D	13:02	35,39	970.13	934,74
MW-416D	13/00	31.10	965.84	934.74

					INSPECTION DATE: 12/14/16 INSPECTION BY: WJR
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	0
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	МОМТН	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		У	\ \ \	
EYEWASH STATION	х		У		
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У	N	
EMERGENCY LIGHTING	х		y	N _	
SITE ISSUES	х		y	N	
SITE SECURITY			-		
FENCING		х	Y	<u> </u>	
GATES	[х	У	N	
LOCKS		х	У	N	
SIGNS	<u> </u>	х	y	N	
SITE		х	y	N	<u> </u>
SITE GROUNDS					
DRAINAGE DITCHES/SWALES	<u> </u>	х	У .	N	
BUILDING		х	У	N	
RECOVERY WELL		х		_	
ACCESS ROAD		х	Y	N	
WASTE			•		
CARBON	х				
SOLID	х		Υ	Al.	

							INSPECTION DATE: 12/14/16 INSPECTION BY: WJR
					INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				ОЯ			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES of ND)	
GROUNDWATER SYSTEM							
ERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Y	N_	
OG SYSTEM OPERATING PARAMETERS	х				Y	N	<u> </u>
ISE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				Ÿ	N	
EST LEVEL CONTROLS ETC.	х				Ý	N-	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Ý	N	
NSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Ý	N	
NSPECT BUILDING AND FOUNDATION INTEGRITY	х				Y	N	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				<u> </u>	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ÿ	N	
ERIFY PUMP OPERATION	x				ý	N N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x	<u> </u>				
IR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	x				N		Bags of line Carbon offline
CHECK CARBON FILTER PRESSURES	x						Carbon off line
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				У	N	
NAMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS PERFORM P.M. SERVICE				x			
NR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				x P			
MANUALLY TEST SAFETY INTERLOCKS			x				
		1					

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	16:45	39.71	974.47	934.76
MW-414D	16:25	36.80	971,91	935.11
MW-413D	16:40	35.10	970.13	93503
MW-416D	16:35	30.82	965.84	935.02

					INSPECTION DATE: 12/20/ 4. INSPECTION BY: TIME
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Ų	13	, –
EYEWASH STATION	х		4		
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		4	Ν	
EMERGENCY LIGHTING	x		Y	N	
SITE ISSUES	х		4_	N	
SITE SECURITY					
FENCING		х	Y	N	34 1994
GATES		x	Y	N	
LOCKS		x	Ч	N	
SIGNS		х	Y	N	
SITE		х	4	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	4	IN IN	
BUILDING		x	T	Į.V.	27 - 27 - 37 - 37 - 37 - 37 - 37 - 37 -
RECOVERY WELL		х	Y	IV	
ACCESS ROAD		х	4	V	
WASTE			•		
CARBON	х		Y	N	offline
SOLID	X		4	/V	

							INSPECTION BY: -JMU
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REO'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REGD(1)	(YES) OR (NO)	(YES or NO)	5,000-000-001
GROUNDWATER SYSTEM		-			.,,	NI	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х	ļ	ļ		1	IV	1 - 10 (m - 20 (9 (1)
LOG SYSTEM OPERATING PARAMETERS	x	ļ			7	Ņ.	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х .			· .	- 4	N	
TEST LEVEL CONTROLS ETC.	×				1	IN.	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Y	N.	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				4	I V	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				۲	N	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	<u> </u>	
VISUALLY INSPECT ELECTRICAL SYSTEM	x		_				(
VERIFY PUMP OPERATION	х						
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			Y	l N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			4	l N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x		#	
CHECK BAG FILTER PRESSURES	х				7	Ltd.	
CHECK CARBON FILTER PRESSURES	х				4	,N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				4	1	
AMP TRANSFER PUMP MOTORS				х			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				
		-	 		 		

^{*} Frequency that may be required is based on manufacturer data for the system equipment, system atarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	11:05	38.20	974.47	936.27
MW-414D	11:01	35.27	971.91	936.64
MW-413D	10:57	33.5%	970.13	9.34.57
MW-416D	10:43	29.29	965.84	936.55

					INSPECTION DATE: 12-29-16 INSPECTION BY: ELS
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
87	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Y	N	
EYEWASH STATION	×		7	7	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		y	N	
EMERGENCY LIGHTING	x		У	N	
SITE ISSUES	х		У	N	28 (28 A) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SITE SECURITY					
FENCING		x	٧	N	
GATES		×	4	N	
LOCKS		х	Ý	N	
SIGNS		х	ÿ	N	
SITE		х	4	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	У	N	
BUILDING		Х	<u> </u>	N	
RECOVERY WELL		Х	Ý	N	
ACCESS ROAD		х	1 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
WASTE					
CARBON	х		とと	NA	
SOLID	х		1 7	2	3 79

**							INSPECTION DATE: (2-37-(6) INSPECTION BY: 645
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/	CORRECTIVE MEASURES REO'D	COMMENTS
(8	WEEK	MONTH	MONTHS	OR AS REOD(1)	(YES) OR (NO)	(YES or NO)	_
GROUNDWATER SYSTEM					, , , ,	*	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x				Y	N	
LOG SYSTEM OPERATING PARAMETERS	х				Ý	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				ý	~	
TEST LEVEL CONTROLS ETC.	x				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x .		1		7	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				7	-N_	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	, A	N	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				7	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				7	N	
VERIFY PUMP OPERATION	х				Ÿ	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			Y	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			<u> </u>	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x	4	N	
CHECK BAG FILTER PRESSURES	х				NA	NA	
CHECK CARBON FILTER PRESSURES	х				11/4	NA	
NIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				4	N	
AMP TRANSFER PUMP MOTORS				x	ÿ	N	
TRANSFER PUMPS - PERFORM P.M. SERVICE				х	Ÿ	N	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x	4	N	
CHECK & CALIBRATE INSTRUMENTATION				х	4	N	
MANUALLY OPERATE & CHECK VALVES				х	Y	N	
MANUALLY TEST SAFETY INTERLOCKS			x		Α	2	
	-					-	

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1100	34.71	974.47	937.76
MW-414D	1054	33.81	971.91	938.10
MW-413D	1051	32-11	970,13	938.82
MW-416D	1048	£8.5G	965.84	10.169

INSPECTION DATE: 1/6/17 INSPECTION BY: ELS MINIMUM FREQUENCY INSPECTED/ CORRECTIVE EVERY EVERY TESTED MEASURES REQ'D **COMMENTS** WEEK МОМТН (YES or NO) (YES or NO) SITE SAFETY х 4 FIRST AID KIT N Y **EYEWASH STATION** N FIRE EXTINGUISHERS\SMOKE DETECTORS Y EMERGENCY LIGHTING N SITE ISSUES Y SITE SECURITY **FENCING** GATES LOCKS SIGNS SITE SITE GROUNDS DRAINAGE DITCHES/SWALES BUILDING RECOVERY WELL ACCESS ROAD WASTE **CARBON** SOLID

							INSPECTION DATE: 1/6/17
							INSPECTION BY: ELS
					INSPECTEDY CORRECTIVE	COMMENTS	
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	¥8
	l			OR			
	WEEK	MONTH	MONTHS	AS REOD(1)	(YES) OR (NO)	(YES of NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Y	~	
LOG SYSTEM OPERATING PARAMETERS	х				٧	~	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				У	N	
TEST LEVEL CONTROLS ETC.	х				У	LA.	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				У		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				У	, u	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				<u> </u>	N.	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				1	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х			!	У	~	
VERIFY PUMP OPERATION	х	!			7	_ N_	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		×					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х				<u> </u>	
AIR STRIPPER CHECK SOLIDS ACCUMULATION		<u> </u>		х		<u> </u>	
CHECK BAG FILTER PRESSURES	х	<u> </u>			7	N	<u> </u>
CHECK CARBON FILTER PRESSURES	x				4	N	
AIR STRIPPER CHECK BLOWER OPERATION AND PRESSURE DROP	x				У	Ν	
AMP TRANSFER PUMP MOTORS				х			
TRANSFER PUMPS PERFORM P.M. SERVICE	ļ			х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	[247	34.53	974.47	937-14
MW-414D	1242	33.63	971.91	938. 18
MW-413D	1238	31.95	970.13	939. 18
MW-416D	1232	27.67	965.84	738.17

	5				INSPECTION DATE: 1/11/17 INSPECTION BY: WJR
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY				_	
FIRST AID KIT	х		У	N N	
EYEWASH STATION	х		l y	<u> </u>	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		l y	N	
EMERGENCY LIGHTING	х		У	N	
SITE ISSUES	Х		ý	N	
SITE SECURITY			•		
FENCING		х	٧	N	
GATES		х	7	1	
LOCKS		х	7	j	
SIGNS		х	У	N	
SITE		х	У	7	
SITE GROUNDS			•		
DRAINAGE DITCHES/SWALES		x	У	N	
BUILDING		x	Y	N	
RECOVERY WELL		х			
ACCESS ROAD		х	У	N	
WASTE					
CARBON	х			_	
SOLID	Х		٧	N	

							INSPECTION DATE: 1/11/17 INSPECTION BY: WJR
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED	CORRECTIVE MEASURES REO'D	COMMENTS
				OR			
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	AS REGD(1)	(YES) OR (NO)	(YES of NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	y.				4	la A	1
LOG SYSTEM OPERATING PARAMETERS	x x				V	_ N	<u> </u>
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	†			7	N7	
TEST LEVEL CONTROLS ETC.	х	1		1	Ý	N N	1
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	×				ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				1 4	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				Y	~	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х	1			Ÿ		
VERIFY PUMP OPERATION	x				Y	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			<u> </u>	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х			<u> </u>		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION			<u> </u>	x			ļ
CHECK BAG FILTER PRESSURES	х				7	N	
CHECK CARBON FILTER PRESSURES	x				NA	NA	Carpan off-line
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Ŋ,	N	
AMP TRANSFER PUMP MOTORS				х			118 #17
TRANSFER PUMPS PERFORM P.M. SERVICE				х			
AIR STRIPPER MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION			ļ	x			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x	 	12		
						-	

Frequency that may be required is based on
 manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	/3:30	36.28	974.47	938.19
MW-414D	13:10	33.40	971.91	9.38.51
MW-413D	13:25	31.70	970.13	9.38.43
MW-416D	13:20	27.44	965,84	938.40

					INSPECTION DATE: 1/17/17 INSPECTION BY: WJR
	I		l	T	
	MINIMUM F		INSPECTED/	CORRECTIVE	<u></u>
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	Х		ΥΥ	Ν	
EYEWASH STATION	Х		Ý	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	Х		У	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
EMERGENCY LIGHTING	х		у	N	
SITE ISSUES	х		У	N	
SITE SECURITY			•		
FENCING		х	Y	N	
GATES		х	Y_	N	
LOCKS		x	У	N	
SIGNS		Х	У	N	
SITE		х	ý	N	
SITE GROUNDS			•	•	
DRAINAGE DITCHES/SWALES		х	У	N	
BUILDING		х	Ý	N	
RECOVERY WELL		х	_	_	
ACCESS ROAD		х	У	1 ~	
WASTE					
CARBON	х			-	
SOLID	Х		У	N	

			•				INSPECTION DATE: 1/17/17 INSPECTION BY: WTR
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				DR			
	WEEK	МОИТН	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	6.
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Y	N	
LOG SYSTEM OPERATING PARAMETERS	х				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				Y	N	
TEST LEVEL CONTROLS ETC.	x				l y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х				Ý	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				ĺÝ	N_	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				l y	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	<u> </u>		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				ÌУ	N	
VERIFY PUMP OPERATION	х				Ý	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS PLC DATA		х	<u> </u>	<u> </u>	Ý	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х					_
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				Y	N	
CHECK CARBON FILTER PRESSURES	х				NA	NA	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				, À,	N	
AMP TRANSFER PUMP MOTORS		<u> </u>		x	,		
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				
			L				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	16:55	34.85	974.47	9.39.62
MW-414D	16:25	31.95	971.91	9.37.76
MW-413D	16245	30.26	970.13	937.87
MW-416D	16:35	25.99	965.64	9.39.85

	2				INSPECTION DATE: 1/27/17 INSPECTION BY: WIR
· · · · ·	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
0	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					2 V
FIRST AID KIT	Х		У	N	
EYEWASH STATION	х		у	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У	۸	
EMERGENCY LIGHTING	х		У	J	
SITE ISSUES	X		у	N	
SITE SECURITY					
FENCING		х	7	N	
GATES		х	У	N	
LOCKS		x	у	N	
SIGNS		х	у	N	
SITE		х	У	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	Y	N-	
BUILDING		х	ý	N	
RECOVERY WELL		х		_	
ACCESS ROAD		х	У	N _	
WASTE					
CARBON	Х		_		
SOLID	Х		7	N	

							INSPECTION DATE: //27/17 INSPECTION BY: WJR
×					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REQ'D	
	WEEK	MONTH	MONTHS	AS REOD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	-					.	
FRIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х .				<u> </u>	N	
LOG SYSTEM OPERATING PARAMETERS	x				<u>У</u>	N	
ISE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x	<u> </u>			У.	N	
EST LEVEL CONTROLS ETC.	х				У_	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х	-			У	Υ	ATET repaired phone line
NSPECT CONTAINMENT SUMP/FLOOR SEAL	x				Y	N	
NSPECT BUILDING AND FOUNDATION INTEGRITY	×				4	N_	
ISPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x	'		Test Trip Set Point and Clean Screens and Louvers
NSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×				_Y_	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ý	1	
ERIFY PUMP OPERATION	х				Ý	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			Ý	N	
AMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x				, · ·	
IIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				У	N	
CHECK CARBON FILTER PRESSURES	х				NA	NA	
IR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Y	7	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS PERFORM P.M. SERVICE				x			
IR STRIPPER - MEASURE AIR FLOW. FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	/3:30	34.16	974,47	940.31
MW-414D	13:45	31.26	971.91	940.65
MW-413D	13:25	29.56	970.13	940.57
MW-416D	131.20	2530	965.84	940.54

					INSPECTION DATE: //30/17 INSPECTION BY: WJR
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH =	(YES or NO)	(YES or NO)	
SITE SAFETY		•			•
FIRST AID KIT	x		У	٨	
EYEWASH STATION	х		У	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		y	7	
EMERGENCY LIGHTING	х		У	N	
SITE ISSUES	х		У	N	
SITE SECURITY			•		
FENCING		x	У	N	
GATES		x	У	N	· · ·
LOCKS		х	Y	N	
SIGNS		х	y		
SITE		х	ý	N _	
SITE GROUNDS			·		
DRAINAGE DITCHES/SWALES		х	У	N	
BUILDING		х	У	N	
RECOVERY WELL		Х	-		
ACCESS ROAD		Х	У	N	
WASTE					
CARBON	х		_		
SOLID	х		У	N N	

							INSPECTION DATE: //30//7 INSPECTION BY: WTR
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MD. OR	TESTED	MEASURES REO'D	
	WEEK	MONTH	MONTHS	AS REOD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM	-						
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N.	
LOG SYSTEM OPERATING PARAMETERS	x		-		У_	<u> </u>	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				<u> </u>	N	
TEST LEVEL CONTROLS ETC.	х				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				Ý	N	•
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				<u> </u>	<u> </u>	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				У_	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	×				У	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				y	N	
VERIFY PUMP OPERATION	х				y	N.	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			Ý	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x			·		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				У	N	
CHECK CARBON FILTER PRESSURES	х				NA	NA	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				Ÿ	7	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			×		Y	N	Tested sump high level switch
		 	 				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	11:41	34.54	974.47	939.93
MW-414D	11:37	31.66	971.91	940.25
MW-413D	11:30	29.96	970.13	940.17
MW-416D	11:10	25.67	965.84	940.17

					INSPECTION DATE: 2/10/17 INSPECTION BY: WJR
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		У	N	
EYEWASH STATION	х		у	A	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		у	N	
EMERGENCY LIGHTING	Х		у	N	
SITE ISSUES	х		ý	N	
SITE SECURITY			•	•	
FENCING		х	У	N	
GATES		х	l ý	ام	
LOCKS		х	У		
SIGNS		х	У	N	
SITE		х	ý	N	
SITE GROUNDS			•	•	
DRAINAGE DITCHES/SWALES		х	Y	N.	
BUILDING		х	У	N	
RECOVERY WELL		х	i -		
ACCESS ROAD		х	7	N	
WASTE					
CARBON	х		_		
SOLID	Х		У	N	

							INSPECTION DATE: 2/10/17 INSPECTION BY: WJR
					INSPECTEDY	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				OR			1
	WEEK	монтн	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES of NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				Υ	N	
LOG SYSTEM OPERATING PARAMETERS	х				Ý	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				ÿ	N	
TEST LEVEL CONTROLS ETC.	x				Ý	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	х			<u> </u>	Υ	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	х				Y	<u> </u>	
INSPECT BUILDING AND FOUNDATION INTEGRITY	х				<u> </u>	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				х	<u> </u>		Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	х				<u> </u>	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х			<u> </u>	Ý	N	
VERIFY PUMP OPERATION	х			<u> </u>	Υ	N N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			Y	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х			,		
AIR STRIPPER CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	х				У	N_	
CHECK CARBON FILTER PRESSURES	х				NA	NA_	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				У	N	
AMP TRANSFER PUMP MOTORS				х			
TRANSFER PUMPS PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				х			
CHECK & CALIBRATE INSTRUMENTATION		<u> </u>		x			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x				
. <u>.</u>							

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	15:20	35.41	974.47	939.06
MW-414D	15:00	32.51	971.91	939.40
MW-413D	1575	30.82	970.13	9.39.31
MW-416D	15705	26.57	965.84	9.39. 2.7

					INSPECTION DATE: 2/14/17 INSPECTION BY: WTR
	MINIMUM	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY		•			
FIRST AID KIT	х		7	N_	
EYEWASH STATION	х		7	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У	N	
EMERGENCY LIGHTING	х		У	N	
SITE ISSUES	х		У	M_	
SITE SECURITY				<u> </u>	
FENCING		x	7	N	
GATES		x	У	N	<u></u>
LOCKS		_ x	У	N	
SIGNS		x	У	N	
SITE		x	· Y	N_	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	Y	N	
BUILDING		х	<u> </u>	N	
RECOVERY WELL		х	-	_	
ACCESS ROAD		х	Y	N	<u> </u>
WASTE			•	•	
CARBON	х			-	
SOLID	х		7	_N	

							INSPECTION DATE: 2/14/17 INSPECTION BY: WJR
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE	COMMENTS
	EVERT	EVERT	EVENTJ	OR	IESTED	MEASURES REO'D	
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x			İ	4	_ ~	
LOG SYSTEM OPERATING PARAMETERS	x				V	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				Ý	N)	
TEST LEVEL CONTROLS ETC.	×				y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x			i –	Ÿ	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	×	1			7		
INSPECT BUILDING AND FOUNDATION INTEGRITY	х		Ī		Ý	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS		1		x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				Y	N_	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ÿ	N	
VERIFY PUMP OPERATION	x	1		<u> </u>	ÿ	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			Ý	N	<u> </u>
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	x				Y	N	
CHECK CARBON FILTER PRESSURES	х				NA	NA.	
AIR STRIPPER CHECK BLOWER OPERATION AND PRESSURE DROP	х				Y	N	
AMP TRANSFER PUMP MOTORS				х			<u> </u>
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				х		64	
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				
				ļ			
		1	1				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
₩-301D	16:00	35.60	974.47	938.87
MW-414D	15:40	32.70	971,91	939.21
MW-413D	15:50	31.01	970.13	939.12
MW-416D	15:45	26.75	965.84	939.09

		-			INSPECTION DATE: 2/24/17 INSPECTION BY: WJR
·	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Υ	N	
EYEWASH STATION	х		Ý	- \	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		у	N	
EMERGENCY LIGHTING	х		У	N	
SITE ISSUES	х		У	7	
SITE SECURITY			•		
FENCING		х	У	N.	
GATES		х	ý	N	
LOCKS		х	٧٠	N	
SIGNS		х	ý	N	
SITE		х	ý	N	
SITE GROUNDS			•		
DRAINAGE DITCHES/SWALES		x	У	N	
BUILDING		х		N	
RECOVERY WELL		х	_		
ACCESS ROAD		х	У	N	
WASTE			•		
CARBON	х			<u> </u>	
SOLID	х		7	N	

							INSPECTION DATE: 2/24/17 INSPECTION BY: WJR
		•			INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO, OR	TESTED	MEASURES REQ'D	
ODOLINIA TER SVOTELL	WEEK	МОНТН	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES of NO)	
GROUNDWATER SYSTEM	<u> </u>	+	 		- V	,	 -
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	x	+			- 7	N,	
LOG SYSTEM OPERATING PARAMETERS	X	 	-		 /		
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X	+			- % -	N-	
TEST LEVEL CONTROLS ETC.	Х	 -			y .	N,	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X	+			/	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X	-			1 3	Ŋ	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X		ļ ——		<u> </u>	- N	
NSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS	-	-	-	x		-	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x	-			, y	N ₁	<u></u>
VISUALLY INSPECT ELECTRICAL SYSTEM	x	-	ļ		У	, N	
VERIFY PUMP OPERATION	x	 			- -X	N_	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		х			<u> </u>	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		х					
NR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				У	N	
CHECK CARBON FILTER PRESSURES	x				NA	N/A	
NR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				7	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
NR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION		l		х			
CHECK & CALIBRATE INSTRUMENTATION				х			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			х				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	10:07	36./2	874.47	9.38.35
MW-414D	10:03	33.25	971.91	938.66
MW-413D	9:55	31.53	970,13	938.60
MW-416D	9:41	27.26	965,84	938.58

				ECHON GRECKEST	INSPECTION DATE: 3/3/17 INSPECTION BY: WIR
	MINIMUM FI	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х	<u> </u>	У У	N	
EYEWASH STATION	Х	<u> </u>	У	٨	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		<u> </u>	N	<u> </u>
EMERGENCY LIGHTING	х		У		
SITE ISSUES	х		У	<u> </u>	<u> </u>
SITE SECURITY					
FENCING		х	Y	٧ .	
GATES		х	<u> </u>	N	
LOCKS		х	У	ال ال	
SIGNS		х	ý	N N	
SITE		х	У	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		х	У	N	
BUILDING		х	ý		
RECOVERY WELL		Х	_	_	
ACCESS ROAD		х	У	N _	
WASTE					
CARBON	х		_		
SOLID	Х		7	N	

							INSPECTION DATE: 3/3/17 INSPECTION BY: WJR
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				OR			
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X			<u> </u>	Y	N	
LOG SYSTEM OPERATING PARAMETERS	x			<u> </u>	Ÿ	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	х				У	N	
TEST LEVEL CONTROLS ETC.	x				Ÿ	ا	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				ý	l N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				ý	ال	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				ý	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x		_	Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				У	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	x				У	N	
VERIFY PUMP OPERATION	x				Ÿ	l i	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			ý	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				x			
CHECK BAG FILTER PRESSURES	x				У	N	
CHECK CARBON FILTER PRESSURES	x				NA	N/A	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	x				Y	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			
AIR STRIPPER - MEASURE AIR FLOW. FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				х			
MANUALLY TEST SAFETY INTERLOCKS			x				
							18

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	15:00	34.55	974.47	939.92
MW-414D	14:35	31.67	971.91	940.24
MW-413D	14:55	2998	970.13	940.15
MW-416D	14:45	25.74	965.84	940.10

			_	12	INSPECTION DATE: 3/8/17 INSPECTION BY: WJR
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		Y	N	
EYEWASH STATION	Х		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		у	N	
EMERGENCY LIGHTING	Х		у	N	
SITE ISSUES	х]	У	N	
SITE SECURITY			•	•	
FENCING		x	Y	N	1
GATES		х	Y	Ň	
LOCKS		x	У	N	
SIGNS		х	Ý	N	
SITE		x	У	N	
SITE GROUNDS			•		•
DRAINAGE DITCHES/SWALES		x	У	N	
BUILDING		x	Ý	7	
RECOVERY WELL		х	_	-	
ACCESS ROAD		х	Y	N	
WASTE					
CARBON	х		_	-	
SOLID	х		У	- N	

						INSPECTION DATE: 3/8/17 INSPECTION BY: WJR
1	_			INSPECTED	CORRECTIVE	COMMENTS
EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REO'D	
	1		OR			
WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES of NO)	
				774		
х				Y	N	
x	}			Y	N	
x				Y	N	
х				У	N	
х				Y_	N	
x				Y	N_	
х				y	l N	
			x	<u>'</u>		Test Trip Set Point and Clean Screens and Louvers
мх				Y	l N	
х				Ý	N	
x	1			Y	ا م	
	x			_Y_	N	
	x					
			x			
x	<u> </u>			Y	2	
x	1			NA	NA	
x				Y	7	
			x			
			х			
			х			
			х			
			x			
		х				
-						
		WEEK MONTH X X X X X X	WEEK MONTH MONTHS X X X X X X X	WEEK MONTH MONTHS AS REQD(1) X X X X X X X X X X X X X	EVERY EVERY EVERY 3 MIN. 6 MO. OR WEEK MONTH MONTHS AS REQD(1) (YES) OR (NO) X X X X X X X X X X X X X	EVERY EVERY EVERY 3 MIN. 5 MO. OR (YES) OR (NO) (YES or NO) X X X X X X X X X X X X X

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	15:35	33.74	974.47	940.77
MW-414D	15:20	30.86	971.91	941.05
MW-413D	15:30	29.18	970.13	940.95
MW-416D	15:25	2492	965.84	940.92

					INSPECTION DATE: 3/13/17 INSPECTION BY: WJR
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	9
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		У	N	
EYEWASH STATION	х		ÿ	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		ÿ	, 7	
EMERGENCY LIGHTING	х		У	N	
SITE ISSUES	х		y	l AI	
SITE SECURITY			•	-	
FENCING		х	У	Al	
GATES		х	, y		
LOCKS		x	y=	N	
SIGNS		х	У	N	
SITE		х	У	N1	
SITE GROUNDS			•	••	
DRAINAGE DITCHES/SWALES		х	У	N	
BUILDING		х	ý	Al	
RECOVERY WELL		х			
ACCESS ROAD		Х	У	N	
WASTE			11		
CARBON	х		_	-	
SOLID	х		Y	N	

							INSPECTION BY: WJR
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	TESTED	MEASURES REQ'D	
				OR			
	WEEK	MONTH	MONTHS	AS REQO(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM		ļ				-	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	х				<u> </u>	٨	
LOG SYSTEM OPERATING PARAMETERS	x				<u>y</u>	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	x				ý	٨١	
TEST LEVEL CONTROLS ETC.	x				Ý	<u> </u>	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x				У	ام	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	x				У	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				у		
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				x			Test Trip Set Point and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	x				· · · · · · · · · · · · · · · · · · ·	_ N	
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Y	14	-
VERIFY PUMP OPERATION	x				Ÿ	М	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x -			Ý	_ N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		x					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				х			
CHECK BAG FILTER PRESSURES	х				Y	N	
CHECK CARBON FILTER PRESSURES	x				NA	NA	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	х				У	N	
AMP TRANSFER PUMP MOTORS				x		•	
TRANSFER PUMPS - PERFORM P.M. SERVICE				x			=
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				х		N	
MANUALLY TEST SAFETY INTERLOCKS			x		'	7	
						i	-

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	15:57	33.75	974.47	940.72
MW-414D	15:25	30.88	971.91	941.03
MW-413D	15-50	29.19	970.13	940.94
MW-416D	15:33	2493	965.84	94091

					INSPECTION DATE: 3/23/17 INSPECTION BY: WJR
	MINIMUM F	REQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	х		У	16	<i>8</i> 5
EYEWASH STATION	х		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		У	N	
EMERGENCY LIGHTING	х		Y	N	
SITE ISSUES	х		ý	N	V.
SITE SECURITY					
FENCING		х	у	N	
GATES		Х	у	Ň	
LOCKS		х	У	J	
SIGNS	<u> </u>	х	Ÿ	N	
SITE		х	У	J	
SITE GROUNDS			<u> </u>		
DRAINAGE DITCHES/SWALES		х	У	~	
BUILDING		х	Ÿ	N	
RECOVERY WELL		х	_	_	
ACCESS ROAD		х	У	N	
WASTE			•	•	
CARBON	х			_	

Notes:

SOLID

Х

-							INSPECTION BY: WITK
					INSPECTED	CORRECTIVE	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	TESTED	MEASURES REO'D	**
ROUNDWATER SYSTEM	WEEK	МОНТН	MONTHS	AS REGO(1)	(YES) OR (NO)	(YES or NO)	
		-		 	1		
RIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X	 			 	 N	
OG SYSTEM OPERATING PARAMETERS	X	14.0		-		N	
E PLC TO CHECK SYSTEM OPERATING CONDITIONS	×	-			 	<u> </u>	
ST LEVEL CONTROLS ETC.	_ X	 			 	N	
SE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	IX	+	-		-	N	
SPECT CONTAINMENT SUMP/FLOOR SEAL	X	+	 	 		N	
SPECT BUILDING AND FOUNDATION INTEGRITY	IX.				7	N N	
SPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS		 		ix .	7		Test Trip Set Point and Clean Screens and Louvers
SPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYST	EMX	 			- 7	<u>~</u>	
SUALLY INSPECT ELECTRICAL SYSTEM	<u> </u>	 		-	3	N.	
RIFY PUMP OPERATION	x					N.	
ELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA	+	X			у_	N	
MPLING (SEE TABLE IN NPDES ATTACHMENTS)		Х				<u> </u>	
A STRIPPER - CHECK SOLIDS ACCUMULATION	+	 		X			
HECK BAG FILTER PRESSURES	- X	 		1	<u> </u>	<u>N</u>	
IECK CARBON FILTER PRESSURES	X.		-		NA-	NA	
STRIPPER CHECK BLOWER OPERATION AND PRESSURE DROP	X		-	-			
IP TRANSFER PUMP MOTORS	_			X		17	
IANSFER PUMPS - PERFORM P.M. SERVICE		 		X			
STRIPPER - MEASURE AIR FLOW, FULL INSPECTION		-		X			
ECK & CALIBRATE INSTRUMENTATION		-		X			
MUALLY OPERATE & CHECK VALVES	+	 		X			•
MUALLY TEST SAFETY INTERLOCKS		<u> </u>	x				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	15:00	30.87	974.47	943.60
MW-414D	14:45	27.98	971.91	943.93
MW-413D	14:53	21.28	970.13	943.85
MW-416D	14:50	21.97	965.84	943.87

					INSPECTION DATE: 3/29/17 INSPECTION BY: WJR
	MINIMUM	FREQUENCY	INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	монтн	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	Х		4	N	
EYEWASH STATION	х		Y		
FIRE EXTINGUISHERS\SMOKE DETECTORS	х		Ÿ	N	
EMERGENCY LIGHTING	х		Y		
SITE ISSUES	x		Ý	V	
SITE SECURITY					
FENCING		×	Y	- N	
GATES		х	Y	2	
LOCKS		х	Y	N N	
SIGNS		x	Y	N	
SITE		x	ý	~1	
SITE GROUNDS			7		*
DRAINAGE DITCHES/SWALES		x	Y	N	
BUILDING		х	Ý	N	
RECOVERY WELL		х	_	~	
ACCESS ROAD		х	у.	N	
WASTE					
CARBON	Х		_	5-5-1	
SOLID	х		7	\sim	

							INSPECTION DATE: 3/29/17 INSPECTION BY: WJR
· · · · ·				INSPECTED	CORRECTIVE	COMMENTS	
	EVERY	EVERY	EVERY 3	MIN, 6 MO. OR	TESTED	MEASURES REQ'D	
GROUNDWATER SYSTEM	WEEK	MONTH	MONTHS	AS REOD(1)	(YES) OR (NO)	(YES or NO)	
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	v	<u> </u>			V	N	
LOG SYSTEM OPERATING PARAMETERS	Î.	 		 	4	1	-
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	v v	 			Ý	A	
TEST LEVEL CONTROLS ETC	x	i			ý	AJ	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	x		-		ý	2	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	Y Y	<u> </u>			Ý	1	=
INSPECT BUILDING AND FOUNDATION INTEGRITY	x				y	N	
INSPECTIVERIFY HEATING AND VENTILATING SYSTEM OPERATIONS	<u> </u>	1		x	Ý	Ÿ	The Strong and Clean Screens and Louvers
INSPECTIVISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	4x	1			Ý	21	The section and section and section
VISUALLY INSPECT ELECTRICAL SYSTEM	х				Ý	N	
VERIFY PUMP OPERATION	x				Ý	N	
WELL LEVELS - MANUALLY CHECK VWATER LEVEL VS. PLC DATA		x			<u> </u>	_	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		×				i	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				×			
CHECK BAG FILTER PRESSURES	x				4	N	
CHECK CARBON FILTER PRESSURES	×	i			NA	NA	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	×	i i			4	N	
AMP TRANSFER PUMP MOTORS				x			
TRANSFER PUMPS - PERFORM P.M. SERVICE				х			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				x			
CHECK & CALIBRATE INSTRUMENTATION				x			
MANUALLY OPERATE & CHECK VALVES				x			
MANUALLY TEST SAFETY INTERLOCKS			x				

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	9:53	30.67	974.47	943.80
MW-414D	9:49	2.7.80	971,91	944.11
MW-413D	9:44	26.10	970,13	944.03
MW-416D	9:29	21.77	965.84	944.07

APPENDIX F Bedrock Groundwater Migration Control System Shutdown Reports

DATE: 10-14-(6/11/3/6
TIME: 12 100 14: 20
BY: EU/WTR
SYSTEM NAME: GWMC SYSTEM COMPONENT: Process 32
REASON FOR REPORT: Anto metic Shutdown due to
Process 32
REASON FOR SHUTDOWN: Process 32
ACTION TAKEN: Punged down sight glace; cheked system parameters;
restorted system.; Replaced BR pump VFD; Replaced
· · · · · · · · · · · · · · · · · · ·
BR pump & mater; Restarted system
START UR DATE & TIME: 10/13/2016 23:26
START-UP DATE & TIME: 11/3/16 14:20
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 12 2 16
TIME: /7:00
BY: WIR
SYSTEM NAME: GWMC SYSTEM COMPONENT: SMPLSH
REASON FOR REPORT: Manual shutdown for alarm testing
REASON FOR SHUTDOWN: Test building sump overflow shutoff switch and
system alarm
ACTION TAKEN: Restarted system
SHUTDOWN DATE & TIME: 12/2/16 16:25 16:45 START-UP DATE & TIME: 12/2/16 16:30 17:00
START-UP DATE & TIME: /2/2/16 /6:30 /7:00
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 2/1/17
TIME: 14:00
BY: WJR
SYSTEM NAME: GWMC SYSTEM COMPONENT: 5MPLSH
REASON FOR REPORT: Manual shutdown for alarm testing
REASON FOR SHUTDOWN: Test building swap overflow shutoff switch and
System alarm
ACTION TAKEN: Restarted system
N. The state of th
SHUTDOWN DATE & TIME: 2/./.m 14:32
SHUTDOWN DATE & TIME: 2/1/17 14:33 START-UP DATE & TIME: 2/1/17 15:05
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE
i e e e e e e e e e e e e e e e e e e e

DATE: 13/2/17				
TIME: 08:50				
BY: WIR				
SYSTEM NAME: GWMC. SYSTEM COMPONENT: TI High Level				
REASON FOR REPORT: Automotic shutdown of system				
REASON FOR SHUTDOWN: High level in equalization tank				
ACTION TAKEN: Pump down equalization tank to 4.75'; Re-started system				
SHUTDOWN DATE & TIME: 3/1/17 07:43				
START-UP DATE & TIME: 3/2/17 10=20				
COMMENTS/SUGGESTIONS:				
Restricted flow due to solids accumulation in bases; Acid wash needed				
REQUIRED REPORT NOTIFICATION PER SECTION 4.0				
IMMEDIATE NON-CRITICAL ROUTINE				
INDIVIDUAL NOTIFIED				
ACTION/RESPONSE				

DATE: 3/13/17 - 3/17/17 TIME: 14:10 15:35 BY: WTR
SYSTEM NAME: GWMC SYSTEM COMPONENT: System REASON FOR REPORT: Manual shutdown
REASON FOR SHUTDOWN: Acid wash & stripping Tower tray cleaning
ACTION TAKEN: System acid wash; Tray cleaning (with disassembly and re-assembly of stripping tower)
SHUTDOWN DATE & TIME: 3/13/17 14:20 START-UP DATE & TIME: 3/17/17 15:35 COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED ACTION/RESPONSE

DATE: 3/17/17 - 3/20/17
TIME: 17:20 18:05
BY: WIR
SYSTEM NAME: GWMC SYSTEM COMPONENT: High P-PT3
REASON FOR REPORT: Automotic Shutdown
REASON FOR SHUTDOWN: High pressure at PT3 - high flow & high Pafter
acid wash
ACTION TAKEN: Re-started system; Throttled down flow from GACALAR with
GAC pump discharge valve
, , ,
SHUTDOWN DATE & TIME: 3/17/17 17:21
START-UP DATE & TIME: 3/20/17 14:00
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATENON-CRITICALROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

DATE: 3 24 (1-3/28/17
TIME: (5155 14:00
BY: CLS
SYSTEM NAME: GWMC SYSTEM COMPONENT: AIR STITUTE
REASON FOR REPORT: Air Stripper tower leaking Manual shutdown
· · ·
REASON FOR SHUTDOWN: lack on air stripper tower (se corner, top of Tray!)
ACTION TAKEN: Shark Amma sankara allan aca. In dec
ACTION TAKEN: short down system, allow area to dry, repaired leak
with RTV sealer, re-started system
SHUTDOWN DATE & TIME: 3 24 17 @ (5:55
START-UP DATE & TIME: 3/28/17 @ 13:35
COMMENTS/SUGGESTIONS:
REQUIRED REPORT NOTIFICATION PER SECTION 4.0
IMMEDIATE NON-CRITICAL ROUTINE
INDIVIDUAL NOTIFIED
ACTION/RESPONSE

APPENDIX G

Project Schedule

100% 0 days Tue 1/220/2 Tue 1/29/2 1/22/2 1/	→ 13/15 → 11/12 → 17/30 → 17/30				,	:
100% 1 day Fri 11/12/04 Fri 11/	↑ 12/18 ↑ 13/12 ↑ ↑ 13/10 ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ ↑ 13/10 ↑ 13/10 ↑ ↑ 13/10				 	
100% 1 day Fri 11/12/04 Fri 11/12/04 100% 1 day Mon 1/30/06 Mon 1/30/06 100% 0 days Sun 6/27/10 Sun 6/27/10 100% 0 days Wed 8/7/13 Wed 8/7/13 100% 0 days The 9/23/06 Thu 9/23/16 100% 0 days The 9/23/06 Thu 9/23/16 100% 1353 days Tue 1/22/02 Thu 5/23/03 100% 296 days Mon 4/7/03 Fri 11/16/04 100% 87 days Wed 6/23/04 Thu 9/30/04 100% 114 days Tue 1/22/02 Fri 6/23/02 100% 631 days Mon 7/1/02 Fri 11/26/04	◆ 12/18					!
100% 1 day Mon 1/30/06 Mon 1/30/06 100% 0 days Sun 6/27/10 Sun 6/2			→ 6/27			
100% 0 days Wed 87713 Wed 87713 100% 0 days Thu 9/2916 Thu 9/2916 100% 353 days Tue 1/22/02 Thu 5/29/03 100% 206 days Med 8/20/4 The 9/29/04 100% 874 Wed 8/20/4 Thu 9/29/04 100% 874 Wed 8/20/4 Thu 9/29/04 100% 631 days Mon 7/102 Fri 11/26/04					ii	·
100% 0 days Thu 9/29/16 Thu 9/29/16 100% 353 days Tue 1/22/02 Thu 5/29/03 100% 206 days Mon 47/03 Fri 1/16/04 100% 87 days Wed 6/20/ Thu 9/30/04 100% 187 days Wed 6/20/ Thu 9/30/04 100% 631 days Mon 7/1/02 Fri 1/126/04	·					
100% 296 days Mon 4/7/03 Fri 1/16/04 100% 87 days Word 6/2/04 Thu 9/3/04/04 100% 114 days Tue 1/2/02/02 Fri 6/2/04/02 100% 631 days Mon 7/1/02 Fri 11/26/04						·
100% 296 days Mon 4/7/03 Fri 1/16/04 100% 87 days Word 6/2/04 Thu 9/3/04/04 100% 114 days Tue 1/2/02/02 Fri 6/2/04/02 100% 631 days Mon 7/1/02 Fri 11/26/04						· *
100% 87 days Wed 6/2/04 Thu 9/30/04 100% 114 days Tue 1/2/02 Fri 6/2/8/02 100% 631 days Mon 7/1/02 Fri 11/26/04						
100% 114 days Tue 1/22/02 Fri 6/28/02 100% 631 days Mon 7/1/02 Fri 11/28/04			·		ii	·
					!	: = = = = = = = = : = = = = = =
100% 366 days Mon 6/23/03 Fri 11/12/04	· 			 		. – – – – – – ¦– – – – –
			i		ii	
						: = = = = = = = = = = = = = = = = = = =
100% 340 days Tue 2/15/05 Mon 6/5/06	·					·
						. – – – – – – – – – – – – – –
100% 1284 days Mon 8/5/02 Fri 6/29/07	, 					
93% 2877 days Mon 1/1/07 Sun 12/31/17	·jjjj				ii	· i
100% 264 days Mon 1/1/07 Mon 12/31/07						: = = = = = = = = = = = = = = = = = = =
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100% 261 days Fri 1/1/10 Fri 12/31/10	jjjj				;;	·
						: = = = = = = = = = = = = = = =
100% 262 days Sun 1/1/12 Mon 12/31/12 I I I I I I I I I I I I I I I I I I I			· - - 			·
100% 261 days Wed 1/1/14 Wed 12/31/14						:j
100% 261 days Thu 1/1/15 Thu 12/31/15 I					 	
100% 262 days Fri 1/1/16 Sat 12/31/16			. – – – – – – – – – – – – – – – – – – –		j 	
400 440 444 444 444 444 444 444 444 444						
100% 446 days Mon 9/30/02 Fri 6/11/04	· ===- 				{	. – – – – – – - - – – – -
100% 350 days Mon 2/28/05 Fri 6/30/06			:======================================			: <u>-</u> ;
100% 1400 days Eri 1/27/06 Wed CMM4					. 40000000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
100% 8 days Fri 1/27/06 Tue 2/7/06	·			 ¦		. – – – – – – – – – – – – – – – – – – –
100% 100 days Mon 11/13/06 Fri 3/30/07		<u></u>			:	
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